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OM nucleic - nucleic search, using sw model

Run on: October 17, 2003, 12:38:45 ; Search time 39.7192 Seconds
(without alignments)
6800.903 Million cell updates/sec

Title: US-09-832-320-3

Perfect score: 612

Sequence: 1 atggcgactcgcgcagcca.....aggcgagagccctactag 612

Scoring table: IDENTITY_NTC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 113956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:*

1: /cgn2_6/ptodata/2/ina/5A_COMB.seq.*

2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*

3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*

4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*

5: /cgn2_6/ptodata/2/ina/PCITUS_COMB.seq.*

6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	139	22.7	749	4	US-09-257-583-12
2	133.2	21.8	866	4	US-09-257-583-6
3	121.8	19.9	806	4	US-09-257-583-14
4	73.8	12.1	1288	1	US-08-440-856A-9
5	70.4	11.5	8438	1	US-07-945-283-1
6	69.6	11.4	152331	3	US-09-138-155-16
7	67.2	11.0	4403765	3	US-09-103-640A-2
8	66	10.8	4411529	3	US-09-103-840A-1
9	65.4	10.7	4411529	3	US-09-103-840A-2
10	65	10.6	696	1	US-08-181-271A-11
11	65	10.6	696	1	US-08-449-315-11
12	65	10.6	696	1	US-08-444-803-11
13	65	10.6	696	1	US-08-449-043-11
14	65	10.6	696	1	US-08-456-262-11
15	65	10.6	696	1	US-08-455-416-11
16	65	10.6	696	1	US-08-455-244-11
17	65	10.6	696	1	US-08-454-876-11
18	65	10.6	696	2	US-08-457-364-11
19	65	10.6	696	2	US-08-456-262-11
20	65	10.6	696	2	US-08-456-240-11
21	65	10.6	696	2	US-08-455-736-11
22	65	10.6	696	2	US-08-971-217-11
23	65	10.6	696	3	US-09-350-600-11
24	64.4	10.5	4257	3	US-08-690-473-1
25	64.4	10.5	4257	3	US-09-259-821A-1
26	64.4	10.5	4257	3	US-08-843-659-1
27	64.4	10.5	12001	1	US-08-458-568A-11

US-09-257-583-12

Sequence 12, Application US/09257583A

Patent No. 6429362

GENERAL INFORMATION:

APPLICANT: Crane, Virginia

TITLE OF INVENTION: Family Of Maize PR-1 Genes And Promoters

FILE REFERENCE: 5718-32, 035718/175219

CURRENT APPLICATION NUMBER: US/09/257,583A

CURRENT FILING DATE: 1999-02-25

NUMBER OF SEQ ID NOS: 37

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 12

LENGTH: 749

TYPE: DNA

ORGANISM: Zea mays

FEATURE:

NAME/KEY: CDS

LOCATION: (92)..(583)

US-09-257-583-12

Query Match	22.7%	Score 139;	DB 4;	Length 749;
Best Local Similarity	61.6%	Pred. No. 5.7e-15;		
Matches 258;	Conservative	0;	Mismatches 155;	Indels 6; Gaps 2;
QY	197	CGGCGGACGAGTACTGCGGCGGCACACACAGCGCGCGCGCGGTGGCGTGGCGCGG	256	
DB	168	CGCCGCGAGGACTACGTGGACCGGCACACACGCGCGCGCGCGGTGGCGTGGCGCGG	227	
QY	257	TGCGGTGGAGCGCGGCGTGGCTTGGGCGCGCGCGGACGGTGGCGGACAGCGCGGCG	316	
DB	228	TGCTCTGGGAGGACACACCGTGGCG---GCSTACGGCGAGAGCAGCGCGCGAGCGCGG	284	
QY	317	AGGCGGCGTGGCGGTTCGCGGAGGTGGCGGCGCGCGCGCGTACGCGCGGACAGGGTGG	376	
DB	285	GCGACTGCGGAGTATCTACCTACCTCGCGCGCGCGCGTACGCGCGGAGAGCTCTTCG	344	
QY	377	CGAGTACGCGCGCGCGCGCGCGCGCGGTGGTGGCGGTGGCGGAGCGCGGTACT	436	
DB	345	CGGCGCGGCGTGGTGGCGGTGGCGCGCGGTGGCGGTGGCGGTGGCGGTGGCGGTGG	404	
QY	437	ACACCCGCGGACACACACGTTGGCGCGCGCGCGCGGTGGCGGTGGCGGTGGCGGTGG	496	
DB	405	ACGACCGGACACACACGTTGGCGCGCGCGCGGTGGCGGTGGCGGTGGCGGTGGCGGT	464	
QY	497	TGTGGCGGACACCGCGCGGTGGCGGTGGCGGTGGCGGTGGCGGTGGCGGTGGCGGTGG	553	
DB	465	TGTGGCGGAGTCCACCGCGGTGGCGGTGGCGGTGGCGGTGGCGGTGGCGGTGGCGGTGG	524	
QY	554	CGCTCAGCGTCTGCGTGTACACCGCGCGGTGGCGGTGGCGGTGGCGGTGGCGGTGGCGGTGG	612	

Db 4274 GGGGGCCCGCGCGCGCGCGCGCGCTGGGACGAGCGCGGCTCTCGGCGAG 4333
QY 385 CGCGCGCGC---CCGCGGAGGTGGTGGCGCTGTGGTGGCGGAGCGCGGTACTACAC 441
Db 4334 ACCGGGGCAGCGCGCGCGCGCGCTCGCGCGCGCGCGCGCGCGCGCGCTCGCGGAGC 4393
QY 442 CACGCCAACACAGTGGCG 501
Db 4394 CGGCG 4453
QY 502 CGAACACCG 547
Db 4454 CGGCG 4459

RESULT 6

US-09-128-155-16/c
; Sequence 16, Application US/09128155
; Patent No. 6117654
; GENERAL INFORMATION:
; APPLICANT: Pan, Yang
; TITLE OF INVENTION: NOVEL MOLECULES OF TANGO-77 RELATED PROTEIN FAMILY
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: 09404/052001
; CURRENT APPLICATION NUMBER: US/09128.155
; EARLIER FILING DATE: 1998-08-03
; EARLIER APPLICATION NUMBER: US 60/091.650
; EARLIER FILING DATE: 1998-07-02
; EARLIER APPLICATION NUMBER: US 60/054.646
; EARLIER FILING DATE: 1997-08-04
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 152331
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(152331)
; OTHER INFORMATION: n = A,T,C or G
US-09-128-155-16

Query Match 11.4%; Score 69.6; DB 3; Length 152331;
Best Local Similarity 47.7%; Pred. No. 0.00051;
Matches 215; Conservative 0; Mismatches 235; Indels 3; Gaps 1;
QY 139 GCGCGCGCGCGGTGACCAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 198
Db 22264 GGGGGGGGTGGGGGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 22205
QY 199 GCGGACGAGTACTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 257
Db 22204 CGGGGGGGGGCGCGGGGGGGGGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 22145
QY 258 GCGGTGGAACCG 317
Db 22144 GCGCGGGCG 22085
QY 318 GSGCGGGTGGCGTTCG 377
Db 22084 TGGGGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 22025
QY 378 GAGCTACCG 437
Db 22024 GGGGGTGGGGGGCGCGGGGGGGGGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 21965
QY 438 CACCCACGCGCAACACAGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 497
Db 21964 GCGCGGGGGGGCGCGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 21905
QY 498 GTGGCGCAACCG 557

Db 21904 GGG 21845
QY 558 CAGCGTCT 588
Db 21844 CACCCCACTGCACCCCACTAGTCTGTGTAAC 21814
RESULT 7
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: PRASER, Ciaire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09103.840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match 11.0%; Score 57.2; DB 3; Length 4403765;
Best Local Similarity 49.0%; Pred. No. 0.00091;
Matches 235; Conservative 0; Mismatches 243; Indels 2; Gaps 2;
QY 72 CGCCACCT 131
Db 1191798 CGGCAATGGCG 1191759
QY 132 GCG 191
Db 1191738 GGGTGGTGGCG 1191679
QY 192 CG-CGACGCGGACGAGTACTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 250
Db 1191678 TGGCG 1191619
QY 251 CCGCGCTGGGTGGAACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 310
Db 1191618 CGGTGACG 1191559
QY 311 GCGCGCAGCG 370
Db 1191558 CGTGGCG 1191499
QY 371 GGTGGCGAGCTACCG 430
Db 1191498 CGACACG 1191439
QY 431 GGTACTACCCACG 490
Db 1191438 GG-CCGCGTGGCTGTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1191380
QY 491 AGTGGTGTGGCGCAACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 550
Db 1191379 CCGGCAACG 1191320
RESULT 8
; Sequence 1, Application US/09103840A

```
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24365-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match
Best Local Similarity 10.8%; Score 66; DB 3; Length 4411529;
Matches 252; Conservative 0; Mismatches 255; Indels 13; Gaps 2;

Qy 34 CTGCTCCCCCGCCATGGCCACCGGCTGCTTCTCTCCACCCCTCTCTCGGCTCTGC 93
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1217716 CTGCTCTACGGGTAAAGCCAAAGGGGGGGGGGGGGGACAGGGCGCTGGCGCACGG 1217775

Qy 94 GCGCGCGCGCGGCCGCCACCGCGCGGTCTCTATGCGCGCGCGCGCGCGCGGTG 153
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1217776 GCGCGCGCGCGCGGAGGGCGCGCGCGGTCTCTGTTGGCAGCGCGCGCGCGG 1217835

Qy 154 ACCAAGCGGACGAGGTGGCACCAGCGGCGGACGAGCAACCGGACGAGTACCTG 213
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1217836 GTGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1217883

Qy 214 GCGCGCGCACACGACGCGCGCGCGCGGTGGCGGTGGCGCGCGCGCGCGCGCG 273
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1217884 CCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1217943

Qy 274 CTGCTTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 338
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1217944 CCACGGGTGTGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1218003

Qy 334 GCGGACGTGGGGGCCACCCCTACGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 393
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1218004 GCGGGGTGGCGG-GAAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1218062

Qy 394 CCGCGCGAGGTGTGGCGGTGTGGGTGGCGGAGGGCGGTACTACACCCACGCAAC 453
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1218063 GTTGGCGCGGGAACGCGCGCAATGGCGCGCAACGCGCGCAATGGCGCGCAAC 1218122

Qy 454 ACCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 513
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1218123 GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1218182

Qy 514 GAGTGGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 553
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1218183 GAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1218222

RESULT 9
US-09-103-840A-1/c
; Sequence 1, Application US/09/03840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00

; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match
Best Local Similarity 10.7%; Score 65.4; DB 3; Length 4411529;
Matches 257; Conservative 0; Mismatches 266; Indels 12; Gaps 2;

Qy 72 CCGCACCCCTCTCTCGCGCTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 131
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1189856 CCGCAATGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189797

Qy 132 GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 191
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1189796 GGGTGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189737

Qy 192 C-----GCGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 247
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1189736 CGTGCGCGGTGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189677

Qy 248 TGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 307
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1189676 GGGCGGTGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189617

Qy 308 AGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 367
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1189616 CCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189557

Qy 368 AGGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 426
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1189556 CCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189497

Qy 427 -----GGCGGTACTACACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 479
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1189496 CGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189437

Qy 490 CAGGTACAGCGAGGTGGTGGCGCAACACCGCGCGCGCGCGCGCGCGCGCGCG 539
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1189436 CCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189377

Qy 540 CCGCACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 594
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1189376 CCGCACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1189322

RESULT 10
US-09-181-271A-11
; Sequence 11, Application US/08161271A
; Patent No. 5614395
; GENERAL INFORMATION:
; APPLICANT: Ryals, John A.
; APPLICANT: Alexander, Danny C.
; APPLICANT: Beck, James J.
; APPLICANT: Duesing, John H.
; APPLICANT: Friedrich, Leslie B.
; APPLICANT: Goodman, Robert M.
; APPLICANT: Harms, Christian
; APPLICANT: Meins, Jr., Frederick
; APPLICANT: Montoya, Alice
; APPLICANT: Moyer, Mary R.
; APPLICANT: Neuhaus, Jean-Marc
; APPLICANT: Payne, George B.
; APPLICANT: Sperison, Jeffrey R.
; APPLICANT: Stinson, Jeffrey R.
; APPLICANT: Uknes, Scott J.
; APPLICANT: Ward, Eric R.
```



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: APPLICATION NUMBER: US 07/768,122
: FILING DATE: 27-SEP-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/580,431
: FILING DATE: 7-SEP-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/368,672
: FILING DATE: 20-JUN-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/329,018
: FILING DATE: 24-MAR-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/045,957
: FILING DATE: 12-APR-1993
: ATTORNEY/AGENT INFORMATION:
: NAME: Elmer, James Scott
: REGISTRATION NUMBER: 36,129
: REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (919)541-8614
: TELEFAX: (919)541-8689
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 696 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: US-08-444-803-11

Query Match      10.6%; Score 65; DB 1; Length 696;
Best Local Similarity 56.2%; Pred. No. 0.0047;
Matches 122; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 395 CCGCGGAGGTGGTGGCCGCTGGTGGCGGAGGGCGGTACTACACCCAGCGCCACACAA 454
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 319 CCGGTAGGCGGTGGAGATGGGTCAATGAGAAACAGTATTATGCCACGACTCAACA 378
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 455 CGTGGCGGGGGCGGCGGACGTGGGACGTACACGCGAGTGGTGGCGCAACACGCGG 514
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 379 CTTGTGCCAAGGACAGAGTGTGGACACTATACAGGTGGTTGGCGTAACCTCGGTC 438
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 515 AGTGGGTGGCGGCGACGACAGTGGCGCCAGCGGCGCCAGCGTCTGCTGCTGTA 574
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 439 GTGTGTGATGTGTAGGTTCAGTGTAAACAATGGAGGATATATGTCTTCTTCAACTATG 498
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 575 ACCCGCACGGCAACGTCCAGCGGCGAGAGCCCTACTA 61:
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 499 ATCTTCAGGTAAAGTTATAGCAARAGCCCACTACTA 535
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 13
US-08-449-043-11
: Sequence 11, Application US/08449043
: Patent No. 5689044
: GENERAL INFORMATION:
: APPLICANT: Ryals, John A.
: APPLICANT: Alexander, Danny C.
: APPLICANT: Beck, James J.
: APPLICANT: Duesing, John H.
: APPLICANT: Friedrich, Leslie B.
: APPLICANT: Goodman, Robert M.
: APPLICANT: Harns, Christian
: APPLICANT: Meins, Jr., Frederick
: APPLICANT: Montoya, Alice
: APPLICANT: Moyer, Mary B.
: APPLICANT: Neuhaus, Jean-Marie
: APPLICANT: Payne, George B.
: APPLICANT: Sperison, Christoph.
: APPLICANT: Stinson, Jeffrey R.
: APPLICANT: Uknes, Scott J.
: APPLICANT: Ward, Eric R.
: APPLICANT: Williams, Shericca C.

: TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
: TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
: NUMBER OF SEQUENCES: 106
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: CIBA-GEIGY Corporation
: STREET: 7 Skyline Drive
: CITY: Hawthorne
: STATE: New York
: COUNTRY: USA
: ZIP: 10532
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/449,043
: FILING DATE: 24-MAY-1995
: CLASSIFICATION: 600
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/181,271
: FILING DATE: 13-JAN-94
: APPLICATION NUMBER: US 08/093,301
: FILING DATE: 16-JUL-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/937,197
: FILING DATE: 6-NOV-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/678,378
: FILING DATE: 1-APR-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/305,566
: FILING DATE: 6-FEB-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/165,667
: FILING DATE: 8-MAR-1988
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/042,847
: FILING DATE: 6-APR-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/632,441
: FILING DATE: 21-DEC-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/425,504
: FILING DATE: 20-OCT 1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/848,506
: FILING DATE: 6-MAR-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/766,122
: FILING DATE: 27-SEP-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/580,431
: FILING DATE: 7-SEP-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/368,672
: FILING DATE: 20-JUN-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/329,018
: FILING DATE: 24-MAR-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/045,957
: FILING DATE: 12-APR-1993
: ATTORNEY/AGENT INFORMATION:
: NAME: Elmer, James Scott
: REGISTRATION NUMBER: 36,129
: REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (919)541-8614
: TELEFAX: (919)541-8689
: INFORMATION FOR SEQ ID NO: 11:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 696 base pairs
```



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121  CCGCTCTCTANTGCCGGCGGGCGGGCGGGTACCAAAAGCCGACGAGGGTGGCAGCGGC 180
181  AGCGGACGAACAAGGAGGAGGAGGAGTACCTGGCGGCGGCACAAACCAAGCAGCGGCGGCGG 240
181  AGCGGACGAACAAGGAGGAGGAGGAGTACCTGGCGGCGGCACAAACCAAGCAGCGGCGGCGG 240
241  GTGGGCGTGGCGCGCGCTGCGTGTGAACCGCGGGCTGTGGCTTGGCGGCGCGCGGGGAGG 300
241  GTGGGCGTGGCGCGCGCTGCGTGTGAACCGCGGGCTGTGGCTTGGCGGCGCGCGGGGAGG 300
301  GCGCAGCAGCAGCGCGCAGGCGGGGTGGCGCTTGGCGGACGTGGGGGCGCAGCCCTACGCG 360
301  GCGCAGCAGCAGCGCGCAGGCGGGGTGGCGCTTGGCGGACGTGGGGGCGCAGCCCTACGCG 360
361  CGGAACCAAGGGTGGGCGAGCTACCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 420
361  CGGAACCAAGGGTGGGCGAGCTACCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 420
421  GCGGAGGGGGGTACTACACCCAGCCCAACACAGCTGGCGCGCGGGCGGCGAGTGCAGCG 480
421  GCGGAGGGGGGTACTACACCCAGCCCAACACAGCTGGCGCGGGCGGCGAGTGCAGCG 480
481  AGCTACACGCAAGTGGTGTGGCGCAACACCGCGCGAGTGGCGTGGCGCAGCCAGCTGC 540
481  AGCTACACGCAAGTGGTGTGGCGCAACACCGCGCGAGTGGCGTGGCGCAGCCAGCTGC 540
541  GCCAGGGGGCGCAGCGCTACGCTTGTCTGTACAAACCGCCACGGCAACGTGAGGGGCGAG 600
541  GCCAGGGGGCGCAGCGCTACGCTTGTCTGTACAAACCGCCACGGCAACGTGAGGGGCGAG 600
601  AGCCCGCTACTAG 612
601  AGCCCGCTACTAG 612

RESULT 2
US-09-832-320-1
; Sequence 1, Application US/09832320
; Patent No. US20010049834A1
; GENERAL INFORMATION:
; APPLICANT: Crane, Edmund H.
; APPLICANT: Crane, Virginia C.
; TITLE OF INVENTION: Maize Pathogenesis-Related
; TITLE OF INVENTION: Polynucleotide and Methods of Use
; FILE REFERENCE: 35718/214291
; CURRENT APPLICATION NUMBER: US/09/832,320
; CURRENT FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: US 60/195,801
; PRIOR FILING DATE: 2000-04-10
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 898
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)...(674)
US-09-832-320-1

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183 CGGGTCTCTATGGCGGCGCGGGGCGCGGTACCAAGCGGACAGGGTGGCACCGGC 242
181 AGCGGAGCAACGCGACGGCGGACGACTACCTGGCGGTGCGACAAACAGGCGCGCGGCGG 240
243 AGCGGAGCAACGCGGAGCGCGGACGAGTACTGTGCGCGCGCACAAACAGCGCGCGGCGG 302
241 GTGGGGGTGCCCGCGTGTGGGTGGAACCGCGGGCTTGGCTTCGCGGGACGCGGGGACGGTG 300
303 GTGGGGGTGCCCGCGTGTGGGTGGAACCGCGGGCTTGGCTTCGCGGGACGCGGGGACGGTG 362
301 GCGCAGCAGCGCGGCGTGAAGCGGGGTGGCGGTGCGCGACGTGGGCGGCACGCCCTACGGC 360
363 GCCCAACAGCGCGGCGGACGGCGGTGGCGGTTCGGCGACGTGGGCGGCACGCCCTACGGC 422
361 GCGAACACAGGGTGGCGGACGTACCGCGCGCGCGCGCGCGCGCGCGCGCTGTGGTG 420
423 GCGAACACAGGGTGGCGGACGTACCGCGCGCGCGCGCGCGCGCGCGCGCTGTGGTG 482
421 GCGAGGGGCGGTACTACCGCCACCGCAACACAGCTGCCCGCGCGCGCGCGCGCTGTGGTG 480
483 GCGAGGGGCGGTACTACCGCCACCGCAACACAGCTGCCCGCGCGCGCGCGCGCTGTGGTG 542
481 ACGTACACGAGGTGGTGTGGCGGACACAGCGCGAGGTGCGGTCGCGCGAGGCGCGAGTGC 540
543 ACGTACACGAGGTGGTGTGGCGGACACCGCGCGAGGTGCGGTCGCGCGAGGCGCGAGTGC 602
541 GCGACGGGCGCCAGCGCTACGCGCTGCGCTGTACAAACCGCGACGCGCGAGGTGCGAGGGCAG 600
603 GCGACGGGCGCCAGCGCTACGCGCTGCGCTGTACAAACCGCGACGCGCGAGGTGCGAGGGCAG 662
601 AGCCCTACTAG 612
663 AGCCCTACTAG 674

RESULTS: 3
US-09-840-479-12
: Sequence 12, Application: US/09840479
: Patent No. US20010025380A1
: GENERAL INFORMATION:
: APPLICANT: Crane, Virginia
: TITLE OF INVENTION: Family Of Maize Pr-1 Genes And Promoters
: FILE REFERENCE: 5718-32, 035718/175219
: CURRENT APPLICATION NUMBER: US/09/840,479
: CURRENT FILING DATE: 2001-04-23
: PRIOR APPLICATION NUMBER: 09/257,583
: PRIOR FILING DATE: 1999-02-25
: NUMBER OF SEQ ID NOS: 37
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 12
: LENGTH: 749
: TYPE: DNA
: ORGANISM: Zea mays
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (92)..(563)
: US-09-840-479-12

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Query Match: 100.0%; Score 612; DP 9; Length 898;

285	GGGACAGCCAGCTGATGACATCCGGCGUGGCGCTACGGCGAAGAACCTCTCTGGGGGTGG	344
Db		
377	CGAGGTACCGCCGCGCCGCGCAGGTGGTGGGCGTGTGGTGGCGAGCGCGCTACT	436
QY		
345	CCGGCCCGCACTTGTGTGGCGTCCGACGCCGTGGGCTCTCGGAGAACGACTACT	404
Db		
437	ACACCACGCCAACACACAGTGTGCGCGGGCGGCGAGTGGCGAGCTATCACGAGGTGG	496
QY		
405	ACGACCACGACACCAACAGCTCGCGGAGGGCGAGTGTGGGCGCACTACACGCAAGTGG	464
Db		
497	TGTGGGCAACACCGCCAGGTTCGGTTCGGCGCAGGCCAGCTGG---CCACGSGGCGCA	553
QY		
465	TGTGGCGCACTCCACCGGCATCGGCTGTGCCCGGTGCTTGGCAGCAACACCGCGGG	524
Db		
554	CGCTCAGCTCTGCTGTACACCCGCGACGCAACAGTCGAGGGCCAGAGCCCCCTACTAG	612
QY		
525	GTTCATCACTGCAAGCTACACCCCGCGGCAACGCTGTGGCGACAGCCCCCTACTAG	583
Db		

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RESULT 4
US-10-259-165-774
: Sequence 774, Application US/10259165
: Publication No. US20030135688A1
: GENERAL INFORMATION:
: APPLICANT: Zhu, Tong
: APPLICANT: Wang, Xun
: APPLICANT: Chang, Hui-song
: APPLICANT: Briggs, Steven P.
: APPLICANT: Cooper, Bret
: APPLICANT: Glazebrook, Jane
: APPLICANT: Goff, Stephen A.
: APPLICANT: Katagiri, Fumiyuki
: APPLICANT: Kreps, Joel
: APPLICANT: Moughamer, Todd
: APPLICANT: Provart, Nicholas
: APPLICANT: Ricke, Darrell
: TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL, GENE SILENCING
: FILE REFERENCE: 73030-NP
: CURRENT APPLICATION NUMBER: US/10/259,165
: CURRENT FILING DATE: 2002-09-26
: PRIOR APPLICATION NUMBER: US 60/3370,620
: PRIOR FILING DATE: 2002-04-04
: PRIOR APPLICATION NUMBER: US 60/368,327
: PRIOR FILING DATE: 2002-03-27
: PRIOR APPLICATION NUMBER: US 62/325,277
: PRIOR FILING DATE: 2001-09-26
: NUMBER OF SEQ ID NOS: 782
: SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
: SEQ ID NO 774
: LENGTH: 654
: TYPE: DNA
: ORGANISM: zea mays
US-10-259-165-774

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Qy	378	GAGCTACGGCGCGCGCCCGCGAGAGGCTGGGGGCGGAGGCGGTA	437
Db	282	GGGCGGGCGCTGGAGCGCGCGCGACCGCTGGGTGCTGGGTGGAGAGGA	341
Qy	438	CACCCAGCCCAACACAGTGGCGGGGGCGGCGAGTGGCGACGTACAGCAGGTGGT	497
Db	342	CCACCTGAGCAGCAACACTCGGACCCCGGCAAGGTGCGGCCACTACACGACGGTGGT	401
Qy	498	GTGCGGCAACCCCGCAGGTGCGGTGCGCGCAGGCCAGCTG---CGCCACCGGCGCCAC	554
Db	402	GTGGCGCAGGTCCACCCCGCATCGGTGCGCGCGGTGCTGCGCGCGCAACCGCGGGT	461
Qy	555	GCTCAGCGTCTGCTGTATACACCGCGCAGCGGAACGTGACAGGCCAGAGCCCTAC	609
Db	462	CITCATGCTGTGCAGCTACGACCCCGCGGCAACGTCAACGCCACGCCCCGCTTC	516

RESULT 5

US-10-259-165-765/c

: Sequence 765, Application US/10259165

: Publication No. US2003013588A1

: GENERAL INFORMATION:

: APPLICANT: Zhu, Tong

: APPLICANT: Wang, Xun

: APPLICANT: Chang, Hui-song

: APPLICANT: Briggs, Steven P.

: APPLICANT: Cooper, Bret

: APPLICANT: Gazebrook, Jane

: APPLICANT: Goff, Stephen A.

: APPLICANT: Katagiri, Fumiyuki

: APPLICANT: Kreps, Joel

: APPLICANT: Moughamer, Todd

: APPLICANT: Provart, Nicholas

: APPLICANT: Rieke, Dorell

: TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING

: FILE REFERENCE: 70330-NP

: CURRENT APPLICATION NUMBER: US/10/259,165

: CURRENT FILING DATE: 2002-09-25

: PRIOR APPLICATION NUMBER: US 60/370,620

: PRIOR FILING DATE: 2002-04-04

: PRIOR APPLICATION NUMBER: US 60/368,327

: PRIOR FILING DATE: 2002-03-27

: PRIOR APPLICATION NUMBER: US 60/325,277

: PRIOR FILING DATE: 2001-09-26

: NUMBER OF SEQ ID NOS: 782

: SOFTWARE: Patentlist.pl version 3.0.4 (C) 2001 Syngenta

: SEQ ID NO 765

: LENGTH: 555

: TYPE: DNA

: ORGANISM: Zea mays

: US-10-259-165-765

Query Match	21.9%	Score 133.8:	DB 12:	Length 555:
Best Local Similarity	60.9%	Prod. NO. 4.4e-19:		
Matches 254:	Conservative	0:	Mismatches 157:	Indels 6: Gaps 2
Qy	196	ACGGCGGACGAGTACCTGGCGGCCGCACAAACAGGCGCGCGCGCGGTGGCGGTGGCCGG	255	
Db	495	ACGGCGGAGGACTTCGTGAATCTGCNAAACGGCGCGCGCGCGGACGGCGTGGCCGG	436	
Qy	256	CTGGGTGGAAACGGGGGCGCTTGGCTGGCGCGCGCGGGGACGGTGGCGACAGCGGCGG	315	
Db	435	GTGGGTGGGACCGCAGGGTGGCGGAGTACGCGCAGGACTACGGCGGACGCGCGCGG	376	
Qy	316	CAGGGGGGTGGCGGTTCGGCGGACGTGGGGGCCAGCCCTACGGCGCGCAACAGGAGGTGG	375	
Db	375	GACTGCCGGCTGGTGCACTCGGGCGGGCGCTTCGGCGAGACAATC---TTCTGGGGCTCG	319	
Qy	376	CGGAGCTACCGCGCGCGCCCGCGGAGGTGGTGGCGCTGTGGTGGCGAGGGCGGTAC	435	
Db	318	CGGGGGCGGGTGGAGCGCCGCCACCGCTGGCGTGGTGGCGACGAGAAGAGAAC	259	


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Db 423 GTGTGGCGAGGTGTCCACCCGATCGGTGGCGGCGGTGTCTGCCGGAACACCGGG 482
QY 551 CCAGGCTACGGTCTGCTGTACAGCCGACCGCAACCTGGAGGGGACAGACCCCTAC 609
Db 483 GGGTCTTCATCGTCTGCAGCTAGCACCCGCGGGAACGCTCAAGCGCCAGCGCCGCTC 541
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RESULT 8

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US-09-840-479-14
; Sequence 14, Application US/09840479
; Patent No. US20010025380A1
; GENERAL INFORMATION:
; APPLICANT: Crane, Virginia
; TITLE OF INVENTION: Family Of Maize PR-1 Genes And Promoters
; FILE REFERENCE: 5718-32, 035718/175219
; CURRENT APPLICATION NUMBER: US/09/840,479
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: 09/257,563
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 806
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (42)..(686)
; NAME/KEY: unsure
; LOCATION: (775)
; OTHER INFORMATION: The nucleotide at this position may be a c or t
; OTHER INFORMATION: or c.
US-09-840-479-14
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Query Match: 19.9%; Score 121.8; DB 9; Length 806;
Best Local Similarity 60.6%; Pred. No. 1.2e-16;
Matches 254; Conservative 0; Mismatches 157; Indels 8; Gaps 3;

QY 196 ACGGCGCAGAGTACCTGGCGCGGACACACAGCGCGCGCGCGCGGTGGCGTGGCGCGG 255
Db 141 ACGGCGCAGAGTTCGTGAATCTGCACAAACCGCGCGCGCGCGCGCGCGCGCGCGCG 200
QY 256 CTGGGTGACAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 315
Db 201 GTGGCGTGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 260
QY 316 CAGGCGGCTGGCGTTCGCGGACCTGGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 375
Db 261 GACTGCGCGCTGGTGCACCTCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 317
QY 376 CGGAGTACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGTAC 435
Db 318 GCGGCGCGCGCGTGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 377
QY 436 TACACCCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGTG 495
Db 378 TACCACCTGAGCAGCAACACCTTCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 437
QY 496 GTGTGCGCGA--ACACCGCGCGAGTGGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCG 550
Db 438 GTGTGCGCGAGGTGTCCACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 497
QY 551 CCACCGCTACGCTGTGCTGTACACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGTAC 609
Db 498 GCGTCTTCACTGCTGCACTACGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGTTC 556
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RESULT 9

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US-10-259-165-345
; Sequence 345, Application US/10259165
; Publication No. US2003013588A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Zhu, Tong
; APPLICANT: Wang, Xun
; APPLICANT: Chang, Hur-song
; APPLICANT: Briggs, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiyaki
; APPLICANT: Kreps, Joel
; APPLICANT: Moughamer, Todd
; APPLICANT: Provart, Nicholas
; APPLICANT: Rieke, Darrell
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCI
; FILE REFERENCE: 70030-NP
; CURRENT APPLICATION NUMBER: US/10/259,165
; CURRENT FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/368,327
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 60/325,277
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: PatentList.pl version: 3.0.4 (C) 2001 Syngenta
; SEQ ID NO 345
; LENGTH: 528
; TYPE: DNA
; ORGANISM: Oryza sativa
US-10-259-165-345
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Query Match: 19.2%; Score 117.4; DB 12; Length 528;
Best Local Similarity 55.4%; Pred. No. 1e-15;
Matches 270; Conservative 0; Mismatches 211; Indels 6; Gaps 2;

QY 126 CTTATGCCGCGCGCGCGCGCGCGGTGACCAAGCGCGCAGCGGTGSCACCGCGCAGCGG 185
Db 21 CTTGCGCGCGCGTGTGCGCGCGCGCGCATCTGCTGCGCATGCGCCACCGCCACCGACGTC 80
QY 186 CAGCAACGCGAGCGCGCGCGCGCGGTACCTGGCGCGCGCGCACACCGCGCGCGCGCGTGG 245
Db 81 GCGCGCAGAACCGCGCGCGCGCGCGGTACGCTCAACCTGCACAAACGCGCGCGCGCGCGG 140
QY 246 CGTGGCGCGCGTGGGTGGAAGCGCGCGCGCGTGGCTTGGCGCGCGCGCGCGCGCGCGCA 305
Db 141 CGTGGCGCGGTGAGCTGGGACCGCAAGGTGCGCAGCTTCGCGCGAGAGCTACGCGCGCGCA 200
QY 306 CAGCGCGCGCGCGCGCGGTGCGCGTTCGCGGAGCGTGGCGCGCGCGCGCGCGCGCGCGAA 365
Db 201 GCGCGCGCGCGCTGCGCGGTGCGAGCACTCGCGCGCGCGGTACGCGCGAGAACATCTT--- 257
QY 366 CCAGGGGTGGCGCGCGTACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGGA 425
Db 258 CTGGGGCTCGCGCGCGCGCGCGCTGGAGCGCGCGCGCGCGCGTGGCGTCTGGGTGGCGGA 317
QY 426 GGGCGGTACTACACCCACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCA 485
Db 318 CAAGAGAGACTACCACTACGACACCAACACGCTGCGACCGCGCGCGCGCGCGCGCGCACTA 377
QY 486 CAGCGAGGTGTGTGGCGCAACCGCGCGAGGTGGGTGGCGCGCGCGCGCGCGCGCGCGCGAC 545
Db 378 CACCGAGGTGTGTGGCGCAAGCGGTGGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 437
QY 546 G---GGCGCGCGCTCAGCGTCTGCCCTGTACAAACCGCGCGCGCGCGCGCGCGCGCGAG 602
Db 438 GAACCGCGCGGTGTTCATCACTACCTGCAACGACCGCGCGCGCGCGCGCGCGCGCGCG 497
QY 603 CCCCTAC 609
Db 498 CCCGTTT 504
```

RESULT 10

US-10-259-165-85

Sequence 85, Application US/10259165
Publication No. US2003013588A1
GENERAL INFORMATION:
APPLICANT: Zhu, Tong
APPLICANT: Wang, Xun
APPLICANT: Chang, Hui-song
APPLICANT: Briggs, Steven P.
APPLICANT: Cooper, Bret
APPLICANT: Glazebrook, Jane
APPLICANT: Goff, Stephen A.
APPLICANT: Kalagiri, FumiYaki
APPLICANT: Kreps, Joel
APPLICANT: Moughamer, Todd
APPLICANT: Provart, Nicholas
APPLICANT: Rieke, Darrel
TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
FILE REFERENCE: 70030-NP
CURRENT APPLICATION NUMBER: US/10259,165
CURRENT FILING DATE: 2002-09-26
PRIOR APPLICATION NUMBER: US 60/370,620
PRIOR FILING DATE: 2002-04-04
PRIOR APPLICATION NUMBER: US 60/358,327
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: US 60/325,277
PRIOR FILING DATE: 2001-09-26
NUMBER OF SEQ ID NOS: 782
SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
SEQ ID NO 85
LENGTH: 531
TYPE: DNA
ORGANISM: Oryza sativa
US-10-259-165-85

Query Match 19.2%; Score 117.4; DB 12; Length 531;
Best Local Similarity 55.4%; Pred. No. 1e-15;
Matches 270; Conservative 0; Mismatches 211; Indels 6; Gaps 2;
QY 126 CCTCATGCCGGCGGCGCGCGGTGACCAAGGCGGACAGGCGTGGCAGCGGAGCGG 185
DB 21 CCTCGCGCGGTCTCGCGCTGGCCATCTCGCTGGCCATGGCGGCGCCACACACACCTC 80
QY 186 CAGCAAGCGGAGCGGCGGACGAGTACCTGGCGCGGACAAACAGCGCGCGCGCGTGGG 245
DB 81 GCGCGAAGACCGCGGAGCACTACGTCACCTGTCACACAGCGCGCGGCGCGGAGCG 140
QY 246 CTTGGCCCGCTCGGTGGAGCGGCGCTGGCTTGGCGGCGCGCGCGCGGAGCGGAGCG 305
DB 141 CTTGGCGCGCGGTGAGCTGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 200
QY 306 GCAGCGCGCGGCGGCGGCGGTGCGCGTTCGCGGCGGCGGCGGCGGCGGCGGCGGCG 365
DB 201 GCGCGCGCGGCGGCGGCGGTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 257
QY 366 CCAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 425
DB 258 CTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 377
QY 426 GGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 485
DB 318 GAGAGAGAGTACACTACAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 377
QY 486 CAGCGAGTCTGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 545
DB 378 CACCGAGTGTGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 437
QY 546 G---GGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 602
DB 438 GAACCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 497
QY 603 CCCTAC 609
DB 498 CCGCTC 504

RESULT 11
US-10-078-929-85
Sequence 85, Application US/10078329
Publication No. US20020152497A1
GENERAL INFORMATION:
APPLICANT: Rafalski, Antoni
APPLICANT: Miao, Guo-Hua
APPLICANT: Falco, Saverio Carl
APPLICANT: Sakai, Hajime
APPLICANT: Famodu, Omolayo O.
APPLICANT: Odeli, Joan T.
APPLICANT: Meyers, Blake
APPLICANT: Thorpe, Catherine
APPLICANT: Weng, Zude
TITLE OF INVENTION: Nucleic Acid Fragments Encoding Proteins Involved in
FILE REFERENCE: Stress Response
CURRENT APPLICATION NUMBER: US/10/078,929
CURRENT FILING DATE: 2002-02-19
PRIOR APPLICATION NUMBER: 69/566,394
PRIOR FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: 60/133038
PRIOR FILING DATE: 1999-05-07
PRIOR APPLICATION NUMBER: 60/133042
PRIOR FILING DATE: 1999-05-07
PRIOR APPLICATION NUMBER: 60/133427
PRIOR FILING DATE: 1999-05-11
PRIOR APPLICATION NUMBER: 60/133437
PRIOR FILING DATE: 1999-05-11
PRIOR APPLICATION NUMBER: 60/133428
PRIOR FILING DATE: 1999-05-11
PRIOR APPLICATION NUMBER: 60/133438
PRIOR FILING DATE: 1999-05-11
PRIOR APPLICATION NUMBER: 60/133436
PRIOR FILING DATE: 1999-05-11
PRIOR APPLICATION NUMBER: 60/137667
PRIOR FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 208
SOFTWARE: Microsoft Office 97
SEQ ID NO 85
LENGTH: 714
TYPE: DNA
ORGANISM: Oryza sativa
US-10-078-929-85
Query Match 19.2%; Score 117.4; DB 13; Length 714;
Best Local Similarity 55.4%; Pred. No. 9.5e-16;
Matches 270; Conservative 0; Mismatches 211; Indels 6; Gaps 2;
QY 126 CCTCATGCCGGCGGCGGCGGCGGTGACCAAGGCGGACAGGCGTGGCAGCGGAGCGG 185
DB 39 CCTCGCGCGGTGCTCGCGCTGGCCATCTCGCTGGCCATGGCGGCGCCACACACCTC 98
QY 186 CAGCAAGCGGAGCGGCGGAGTACCTGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGG 245
DB 99 GCGCGAAGACCGCGGAGCACTACGTCACCTGTCACACAGCGCGCGGCGGCGGAGCG 158
QY 246 CTTGGCCCGCTCGGTGGAGCGGCGCTGGCTTGGCGGCGGCGGCGGCGGCGGCGGCG 305
DB 159 CTTGGCGCGGTGAGCTGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 218
QY 306 GCAGCGGCGGCGGCGGCGGTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 365
DB 219 GCGCGCGGCGGCGGCGGTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 275
QY 366 CCAGGCGGTGGCGGAGTACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 425
DB 276 CTTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 335
QY 426 GGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 485
DB 336 GAAGAAGAGTACCACTACGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 395

QY 605 CCTACTAG 612
 |||||
Db 491 CCTACTAG 498

Search completed: October 17, 2003, 14:12:29
Job time : 157.934 secs


```

; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 441529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match      7.3%; Score 66; DB 3; Length 4411529;
Best Local Similarity 48.5%; Pred. No. 0.0032;
Matches 252; Conservative 0; Mismatches 255; Indels 13; Gaps 2;

QY    95 CTGCTCCCCGCCCATGGCCAGCGGTGTTACTTCICGCCACCCCTCTGGCGGTCTGC 155
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB    1217716 CTGGCTCAGCGGTAAAGCCAAGCGGGCGCGGCACACAGCGCGTGGCGCACGS 1217775

QY    156 GCGCGCGCGCGCGCCGACCACAGCGCGCGGTCTCTATCGCGGGCGCGGGCGGGGTG 215
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB    1217776 GCGGCGCGCGCGGAGAGGGCGGCGCGCGGGGTCTGTGGGCACCGCGGCGCACGGG 1217835

QY    216 ACCAAGCGCGCAGCAGGGGTGACACCGGACCGGCGCAACGCGACGCGGACGAGTAGCTG 275
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB    1217836 GTACGCGCGGGCGCGGGCGGC-----GCCGTCAAGCGCGGTGACGCGCGG 1217885

QY    276 GCGCCGACAAACAGAGCGATGCGCGRGCGTGAGCGTGNCCCCTGTGGGTGSAACGCGRC 335
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB    1217884 CGCCGCCGCGCAGCGGCATGCGCGGGGCTGGCGGCGTGTGGCGCGGGCGCGGCGGTG 1217943

QY    336 CTGGCTTGGCGCGCGCGGACGGTGGCGACGCGGCGGCGAGGCGGGTSCGGGTG 395
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB    1217944 GCAGCGGTGTGACGGGGGGGGGGGCGGCGGCGCGCGCGCGGTGGTGTTCGCGCTG 1218003

QY    396 GCGACGCTGGGGGCCAACGCCCTACGGCGGAACGAGGGTGGCGAGACTACGCCGCGCGC 455
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB    1218004 CGGGGCTGGCGG-GAAGCGGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1218063

QY    456 CCGCGCGAGTGTGGCGCTGTGGGTGGCGAGSGGCGTACTACACCGACGCGACAC 515
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB    1218063 GTTGGCGCGGGAAACGCGCGCAATTGCGGCAACGGCGGCAATGCGCGCANTRCGCGAAC 1218122

QY    516 ACGTGGCGGCGCGGGGCGCAGTGGCGCACGTACACGAGGTGTGTGGCGCAACACGCG 575
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB    1218123 GGCGCCACCGGGGGTGGTGTACGGCAAAGCGGCGCGCGCGCGCGCGCGCGCGCGCG 1218182

QY    576 GAGGTGGGTGCGGCGACGCCAGCTGCGCCACGGCGGCCA 615
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB    1218183 GGAGCGCGGGCGCGCGCGCGGTAAAGCGGTACAGGCAACCA 1218222


RESULT 9
US-09-103-840A-1/c
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
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? APPLICATION NUMBER: US 07/937,137
? FILING DATE: 6-NOV-1992
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/678,378
? FILING DATE: 1-APR-1991
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/305,566
? FILING DATE: 6-FEB-1989
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/165,667
? FILING DATE: 8-MAR-1988
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/042,847
? FILING DATE: 6-APR-1993
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/632,441
? FILING DATE: 21-DEC-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/425,504
? FILING DATE: 20-OCT-1989
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/848,506
? FILING DATE: 6-MAR-1992
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/768,122
? FILING DATE: 27-SEP-1991
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/580,431
? FILING DATE: 7-SEP-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/368,672
? FILING DATE: 20-JUN-1989
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/329,018
? FILING DATE: 24-MAR-1989
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 09/045,957
? FILING DATE: 12-APR-1993
? ATTORNEY/AGENT INFORMATION:
? NAME: Elmer, James Scott
? REGISTRATION NUMBER: 36,129
? REFERENCE/LOCKET NUMBER: S-13825/P1/CGC 1727
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (919)541-8614
? TELEFAX: (919)541-8689
? INFORMATION FOR SEQ ID NO: 1:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 696 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: cDNA
? US-08-449-315-11

Query Match. 7.2% Score 65.35; Length 696;
Rest Local Similarity 56.2%; Pred. No. 0.002;
Matches 122; Conservative 0; Mismatches 55; Indels 0; Gaps 0:

QY 457 CCGCGGAGGTGGTGGCTGGTGGCGGNGGGGGTACTACACCCAGCCACACACA 516
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 517 CGTGGCGCGCGGCGCGCATGGCGGACGTACACGAGGTGGTGGCGGACACCCGCG 576
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 379 CTGTGGCCCAAGACACAGGTGTGTGGACACTATCTACGTGGTGGTGGCTGACTCGTTC 438
QY 577 AGTGGGTCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 636
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 439 GTGTGGATGTGTAGGTGTCACTGTAAACAATGGAGGATATATTCTCTCTCAACTATG 498
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 637 ACCGCGACGCAACGTCGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 673
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 499 ATCTCCAGTATATTTATAGGCAAAAGCCCATACTA 535
DB ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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US-38-444-803-11 Application US/08444803
Sequence 1: Patent No. 5654414
GENERAL INFORMATION:
APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christoph
APPLICANT: Stinson, Jeffrey P.
APPLICANT: Uknes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
NUMBER OF SEQUENCES: 106
TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version: #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/444,803
FILING DATE: 19-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/191,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/537,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:

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/ APPLICATION NUMBER: US 07/768,122
/ FILING DATE: 27-SEP-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/580,431
/ FILING DATE: 7-SEP-1990
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/368,672
/ FILING DATE: 20-JUN-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/325,018
/ FILING DATE: 24-MAR-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/045,957
/ FILING DATE: 12-APR-1993
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Elmer, James Scott
/ REGISTRATION NUMBER: 36,129
/ REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (919)541-8614
/ TELEFAX: (919)541-8689
/ INFORMATION FOR SEQ ID NO: 11:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 696 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ US-08-444-803-11

Query Match          7.2%: Score 65; DB 1; Length 696;
Best Local Similarity 56.2%: Pred. No. 0.0021;
Matches 122; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY 457 CGCGGAGGTGGTGGCTGGTGGCGGAGGCGGTACTACACCGCCCAACAA 516
DB 319 CGGTAAAGCGCTGGAGATGTGGCTCAATGAGAACAAGATATTATGCCCGAGCTCAA 378
QY 517 CGTGGCGCGGGCGGCGGAGTGTGGCGGAGGTGTGGCGGCAACACGCGG 576
DB 379 CTGTGGCCCAAGGACAGGTGTGGGACACTATATCAGGTGGTTGGCGTAACTCGGTTC 438
QY 577 AGGTGGGTGGCGGAGCGAGCTGTGGCGGAGCGGCGGCGGCGGCGGCGGCGGCGG 636
DB 439 GTGTGGATGTGCTAGGTTGAGTGTAAACAATGAGGATATATGTCTCTTGGCAACTAIG 498
QY 637 ACCGCGACGCGAGCGTGGCGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 673
DB 499 ATCCGTCAGGTANTGTATTAGGCAAAAGCCCATACTA 535

RESULT 13
US-08-449-043-11
/ Sequence 11, Application US/08449043
/ Patent No. 5689044
/ GENERAL INFORMATION:
/ APPLICANT: Ryals, John A.
/ APPLICANT: Alexander, Danny C.
/ APPLICANT: Beck, James J.
/ APPLICANT: Duesing, John H.
/ APPLICANT: Friedrich, Leslie B.
/ APPLICANT: Goodman, Robert M.
/ APPLICANT: Harms, Christian
/ APPLICANT: Meins, Jr., Frederick
/ APPLICANT: Montoya, Alice
/ APPLICANT: Moyer, Mary B.
/ APPLICANT: Neuhaus, Jean-Marie
/ APPLICANT: Payne, George B.
/ APPLICANT: Sperison, Christoph
/ APPLICANT: Stinson, Jeffrey R.
/ APPLICANT: Uknes, Scott J.
/ APPLICANT: Ward, Eric R.
/ APPLICANT: Williams, Shericca C.

/ TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
/ TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
/ NUMBER OF SEQUENCES: 106
/ CORRESPONDENCE ADDRESS:
/ ADDRESSES: CIBA-GEIGY Corporation
/ STREET: 7 Skyline Drive
/ CITY: Hawthorne
/ STATE: New York
/ COUNTRY: USA
/ ZIP: 10532
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/449,043
/ FILING DATE: 24-MAY-1995
/ CLASSIFICATION: 800
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/181,271
/ FILING DATE: 13-JAN-94
/ APPLICATION NUMBER: US 08/093,301
/ FILING DATE: 16-JUL-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/937,197
/ FILING DATE: 6-NOV-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/678,378
/ FILING DATE: 1-APR-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/305,566
/ FILING DATE: 6-FEB-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/165,567
/ FILING DATE: 8-MAR-1988
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/042,847
/ FILING DATE: 6-APR-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/632,441
/ FILING DATE: 21-DEC-1990
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/425,504
/ FILING DATE: 20-OCT 1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/848,506
/ FILING DATE: 6-MAR-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/768,122
/ FILING DATE: 27-SEP-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/580,431
/ FILING DATE: 7-SEP-1990
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/368,672
/ FILING DATE: 20-JUN-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/329,018
/ FILING DATE: 24-MAR-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/045,957
/ FILING DATE: 12-APR-1993
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Elmer, James Scott
/ REGISTRATION NUMBER: 36,129
/ REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (919)541-8614
/ TELEFAX: (919)541-8689
/ INFORMATION FOR SEQ ID NO: 11:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 696 base pairs
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; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-449-043-11

Query Match      7.2%   Score 65; DB I: Length 696;
Best Local Similarity 56.2%; Pred. No. 0.0021;
Matches 122; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

QY      457 CCGCCGAGGTGGTGGCTGTGGTGCGGAGGGGGGTACTACACCACGCCAACAACA 516
DB      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QB      319 CGCTTAAGCCGTCGAGATGTGGTCAATGAGAAACAGTTATTATGCCACGACTCAAACA 378
QY      517 COTUGCCGCCGGGGCGGCAGTGGCGCAGCTACACGACAGTGGTGTGGCGCAACACCGGCG 576
DB      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QB      379 CTTGTGCCAACAGGACAGGTGTGTGGACACTATACTCAGGTGGTTTGGCGTAACCTGGGTT 438
QY      577 AGGTGGGTGGCCGACGAGCCAGGTCGCCACGAGGCCGACGAGTCAAGCTTCGCTGCAACTAT 635
DB      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QB      439 GTGTGGATGTGCTTAGGGTTCAGTGTAAACAATGAGGATATATTGTCTGTGCAACTAT 495
QY      637 ACCCCGACGCAACGTCGACGAGGCCAGGCCCCCTACTA 673
DB      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QB      499 ATCCC'CCAGTAATGTTATAGCCAAAAGCCCAT'ACTA 535

RESULT 14
US-08-456-265A-11
; Sequence 11: Application US/58456265A
; Patent No. 5767369
; GENERAL INFORMATION:
; APPLICANT: Alexander, Danny C.
; APPLICANT: Rvals, John A.
; APPLICANT: Goodman, Robert M.
; APPLICANT: Scinson, Jeffrey R.
; TITLE OF INVENTION: CHEMICALLY REGULABLE AND ANTIPATHOGENIC
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 520 White Plains Road, P.O. Box 2005
; CITY: Tarrytown
; STATE: New York
; COUNTRY: USA
; ZIP: 10591
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/456,265A
; FILING DATE: 31-MAY-95
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/181,271
; FILING DATE: 13-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/093,301
; FILING DATE: 16-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/937,197
; FILING DATE: 6-NOV-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/678,378
; FILING DATE: 1-APR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/305,566
; FILING DATE: 6-FEB-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/165,667
; FILING DATE: 8-MAR-1988

```

APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christoph
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Uknes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Stefica C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSER: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent: Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US 08/455,416
FILING DATE: 31-MAY-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/181,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1985
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1985
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/PL/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 696 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08 455-416-11
Query Match 7.2% Score 65; DB 1; Length 696;
Best Local Similarity 56.2%; Pred. No. 0.0021;
Matches 122; Conservative 0; Mismatches 95; Indels 0; Gaps 0;
CY 457 CCGCCGAGGTGGTGGGCTGGTGGGGGGGGGTACTACACCGCCCAACAACA 516
DB 319 CCGCTAAGGCCGTGAGATGTGGTCAATGASAAACAGTATTATGCCACGACTCAACA 378
CY 517 CGTGGCCCGCGGGGGCGGACGTCCGCGACGTACACGCAAGTGTGTGCGGACACCGCG 576
DB 375 CTTGTGCCCAAGGACAGGTTGTGGACACATATACATCAATGTTGGGTAACCTGTTTC 438
CY 577 AGGTGGGTGGCGGACGACGCTGGCGACGGGGCGGCAAGCTCAGGCTCTGGCTGTACA 536
DB 439 GTGTTGGATGTCTAGGGTTCAAGTGTACAAATGGAGGATATATGTCTCTTGCACACIATG 498
CY 637 ACCCGACGGCAACGCTGGAGGGCCGACAGGCCCTACTA 673
DB 499 ATCCTCCAGGTAATGTTATAGGCAAAAGGCCATACIA 535

Search completed: October 17, 2003, 12:51:07
Job time : 78.2808 secs

US-09-840-479-12

Query Match 15.3%; Score 139; DB 9; Length 749;
Best Local Similarity 61.6%; Pred. No. 3.2e-21;
Matches 256; Conservative 0; Mismatches 155; Indels 5; Gaps 2;

QY 259 CGCGGACGAGTACCTGGGCGCCGACACAGCGCGCGGGGTGGGCGGCGC 318
DB 168 CGCGGACGAGTACCTGGGCGCCGACACAGCGCGCGGGGTGGGCGGCGC 227

QY 319 TGCGGTGGACGCGGGCCCTGGCTTCGGCGCGCGCGGGGAGCGTGGGCGACGCGCGC 376
DB 228 TGCTCTGGGACGACACGCTGGCG---GCGTACGCGGAGAGGTACGCGGCGGCGACGCGCAGG 284

QY 379 AGGCGCGGAGTGGCGGAGTGGGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 438
DB 285 GCGACTGCCAGCTGATCCACTCCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 344

QY 439 CGAGCTACCGCGCGCGCGCGCGCGGAGTGGTGGCGGTGTGGGTGGGCGGAGGCGGCGTACT 498
DB 345 CGGCGCGGAGTGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 404

QY 499 ACACCCACGCAACACACAGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 558
DB 405 ACAGCCAGCACACACAGCTGGCGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 464

QY 559 TGTGGCGCAACCGCGGAGTGGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 615
DB 465 TGTGGCGGAGTGGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 524

QY 616 CGCTCAGCTCTGCTGTACACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 674
DB 525 TCCTCATCTCAGCACTACACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 583

RESULT 4
US-09-840-479-6
; Sequence 6, Application US/09840479
; Patent No. US20010025380A1
; GENERAL INFORMATION:
; TITLE OF INVENTION: Family Of Maize PR-1 Genes And Promoters
; FILE REFERENCE: 5718-32, 035718/175219
; CURRENT APPLICATION NUMBER: US/09/840.479
; CURRENT FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: 09/257,585
; PRIOR FILING DATE: 1999-02-25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 866
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: CDS
; LOCATION: {111}..{581}
US-09-840-479-6

Query Match 15.3%; Score 137.6; DB 9; Length 866;
Best Local Similarity 62.4%; Pred. No. 6.7e-21;
Matches 267; Conservative 0; Mismatches 154; Indels 7; Gaps 3;

QY 259 CGCGGACGAGTACCTGGGCGCCGACACAGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 318
DB 145 CGCGGACGAGTCTGCTGAACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 214

QY 319 TGCGGTGGACCGGGGCGCTGCTTCGGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 378
DB 205 TGCTGTGGGAAGAGACGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 264

QY 379 AGGCGGGGTGGCGGTTCGCGGAGCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 438
DB 265 ACTGCAAGCTGTGCACTTCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 324

QY 439 CGAGTACCGGCG---GCGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 495
DB 325 CGCGGCGGAGCGCTGGAAAGCGTGCAGACGCGCTTGGCGTTCGGGCGGCGGCGGCGGCGGCGGCGGCGG 384

QY 496 ACTACACCGCGG 555
DB 385 ACTAGGATTACACAGCAACAGCTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 444

QY 556 TGGTGTGGCGCAACACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 612
DB 445 TCGTCTGGCGGCA-ATCCCGCCATCGCTGCGCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 503

QY 613 CGAGCTCAGCTCTGCTGTACACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 672
DB 504 CGGTCTTCATCAGCTGCAACTACACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 563

QY 673 AGCTAGCT 680
DB 564 AGCTAGCT 571

RESULT 5
US-10-259-165-774
; Sequence 774, Application US/10259165
; Publication No. US20030135888A1
; GENERAL INFORMATION:
; APPLICANT: Zhu, Tong
; APPLICANT: Wang, Xun
; APPLICANT: Chang, Hui-song
; APPLICANT: Briggs, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiyak
; APPLICANT: Kreps, Joel
; APPLICANT: Moughamer, Todd
; APPLICANT: Provart, Nicholas
; APPLICANT: Rickes, Dorell
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
; FILE REFERENCE: 70030-NP
; CURRENT APPLICATION NUMBER: US/10/259.165
; CURRENT FILING DATE: 2002-09-26
; P6-OR APPLICATION NUMBER: US 60/170,620
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/368,327
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
; SEQ ID NO 774
; LENGTH: 654
; TYPE: DNA
; ORGANISM: Zea mays
US-10-259-165-774

Query Match 15.2%; Score 136.5; DB 12; Length 654;
Best Local Similarity 56.6%; Pred. No. 1e-20;
Matches 294; Conservative 0; Mismatches 219; Indels 6; Gaps 2;

QY 200 CGGCGCGG 259
DB 45 CGCTGTGGCGG 104

QY 260 GCGGACGAGTACCTGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 319
DB 105 GCGGACGAGTCTGCTGAACCTGCACACCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 164

QY 320 GCGGTGGACGCG 379
DB 165 GCGGTGGACGCG 224

Db 126 ACGCGCAGGACCTTCGTGAATCTGCACAAACCGCGCGCGGAGACCGCGTGGCGCCG 185
Qy 318 CTGGGTGGAACGGGGGCTGGCTTCGGCGCGCGCGGAGGCTGGCGGACAGCGCGG 377
Db 186 GTGGGTGGAGCGCGAGGCTGGCCAGTACCGGAGGACTACGGCGGGAAGCGCGCGCG 245
Qy 378 CAGGGGGGTGGCGGTTTCGCGAGCTGGGGCCAGCGCCCTACGCGGGAACAGCGGTGG 437
Db 246 GACTGCCGGCTGGTGCATCGGGC---GGCGCGTTCGCGGAGAGCATCTTCGGGGCTCG 302
Qy 438 CCGAGCTACCCGCGCGCGCGCGCGAGGTGTGGCGCTGTGGGTGGGAGAGGCGCGGTAC 497
Db 303 CCGGGGGGGGGGTGGAGCGCGCGCGACGCGCTGGCGGTGTGGGTGGAGAGAGGAAC 362
Qy 498 TACACCCACCGCAACACACAGCTGCGCGCGCGCGGCGGCGGACGTACGACGACGCTG 557
Db 363 TACCACCTGAGCAGCAACACCTGGACCGCGCGAAGGTGTGGGCGCACTACACGCGAGTG 422
Qy 558 GTGTGGGGCA--ACACCGCGGAGGTGGGTGCGCGGCGGCGGCGAGCTGGCC---CACGGGCG 612
Db 423 GTGTGGCGCAGCTGTCCACCGCGCATCGCTCGCGCGCGGTGCTGTGAGCGGACACCGCG 482
Qy 613 CCAGGCTACGCTGTGCTGTACAAACCGCGACGCAACGCTGCAGGCGGACGCGCCCTAC 671
Db 483 CGCTTCATCGTGTGACCTACGACCGCGCGGCGGCAAGCTGCAACGGCGGCGCGCGTTC 541

RESULT 8

US-09-840-479-14
: Sequence 14, Application: US/09840479
: Patent No. US20010025380A1
: GENERAL INFORMATION:
: APPLICANT: Crane, Virginia
: TITLE OF INVENTION: Family Of Maize p8-1 Genes And Promoters
: FILE REFERENCE: 5718-32, 035718/175219
: CURRENT APPLICATION NUMBER: US/09/840,479
: CURRENT FILING DATE: 2001-04-23
: PRIOR APPLICATION NUMBER: 09/257,583
: PRIOR FILING DATE: 1999-02-25
: NUMBER OF SEQ ID NOS: 37
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 14
: LENGTH: 806
: TYPE: DNA
: ORGANISM: Zea mays
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (42)...(686)
: NAME/KEY: unsure
: LOCATION: (775)
: OTHER INFORMATION: The nucleotide at this position may be a or g or t
: OTHER INFORMATION: or c.
US-09-840-479-14

Query Match 13.6%; Score 121.8; DB 9; Length 806;
Best Local Similarity 50.6%; Pred. No. 1,90-17;
Matches 254; Conservative 0; Mismatches 157; Indels 8; Gaps 3;
Qy 258 ACGCGGACGAGTACCTGGCGCGCCACACACAGCGCGCGCGGTGGGTGGCGCGG 317
Db 141 ACGCGCAGGACTTCGTGAATCTGCACANCCGCGCGCGCGCGGAGCGGTGGCGCG 200
Qy 318 CTGGGTGGAACGGGGGCTGGCTTCGGCGCGCGCGGAGCGGTGGCGGACAGCGCGG 377
Db 201 GTGGGTGGAGCGCAGGCTGGCAGGTACCGGAGGACTACCGCGCGGAAAGCGCGCG 260
Qy 378 CAGGCGGAGTGGGCTTCGCGAGCTGGGGCGGCGGCGCTACGCGCGCAACAGAGGTGG 437
Db 261 GACTGCCGGCTGGTGCATCGGGC---GGCGCGTTCGCGGAGAGCATCTTCGGGGCTCG 317
Qy 438 CCGAGCTACCGCGCGCGCGCGGAGGTGTGGCGCTGTGGGTGGGAGGCGCGGTAC 497

Db 318 GCGGGCGCGCGCTGAGCGCGCGGAGCGCGCTCGGTTCGTGGGTGGAGAGAGGAAC 377
Qy 498 TACACCCACCGCAACACAGCTGGCGCGCGCGGCGGCGAGTGGCGGACAGCTACAGCGAGTG 557
Db 378 TACACCTGAGCAGCAACACCTTCGAGCCCGCGCAAGGTGTCGGCGCACTACAGCGAGTG 437
Qy 558 GTGTGGGGCA--ACACCGCGGAGGTGGGTGCGCGGCGGCGGCACTGGCC---CACGGGCG 612
Db 438 GTGTGGCGCAGGTGTCCACCGCGCATCGCTCGCGCGCGGTGCTGTGAGCGGACACCGCG 482
Qy 613 CCAGGCTACGCTGTGCTGTACAAACCGCGACGCAACGCTGCAGGCGGACGCGCCCTAC 671
Db 498 CGCTTCATCGTGTGACCTACGACCGCGCGGCGGCAAGCTGCAACGGCGGCGCGTTC 556
RESULT 9
US-10-068-347-3
: Sequence 3, Application: US/10068347
: Publication No. US20020166146A1
: GENERAL INFORMATION:
: APPLICANT: Pioneer Hi-Bred International, Inc.
: APPLICANT: Simmons, Carl
: APPLICANT: Acevedo, Pedro
: TITLE OF INVENTION: Maize P1: Polynucleotides And Methods of Use
: FILE REFERENCE: 35718/242798 (5718-151)
: CURRENT APPLICATION NUMBER: US/10/068,347
: CURRENT FILING DATE: 2002-02-06
: PRIOR APPLICATION NUMBER: 60/267,052
: PRIOR FILING DATE: 2001-02-07
: NUMBER OF SEQ ID NOS: 12
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 3
: LENGTH: 772
: TYPE: DNA
: ORGANISM: Zea mays
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (56)...(571)
US-10-068-347-3

Query Match 13.2%; Score 118.8; DB 13; Length 772;
Best Local Similarity 59.7%; Pred. No. 8,5e-17;
Matches 258; Conservative 0; Mismatches 162; Indels 12; Gaps 3;
Qy 258 ACGCGGACGAGTACCTGGCGCGCCACACACAGCGCGCGGTGGGTGGCGCGG 317
Db 149 ACGCGCAGGACTTCGTGAACCTGCACACTCCCGCGCGGACGCGCGGTGGCGGAC 208
Qy 318 CTGGGTGGAACGGGGGCTGGCTTCGGCGCGCGGAGCGGTGGGTGGAGAGCGCGG 377
Db 209 GTGGCTGGAGACACAGGTGG---CGCGTACGCGGAGAGCTACGCGAACCAGCGCGG 245
Qy 378 CAGGCGGCTGGCGGTTCGGCGAGTGGGCGCGGCGGCGGCTACGCGGAGAGCGGTGG 437
Db 266 GGGGACTGGCGGTGGTGGACATCGGCGGCGGCTACGCGGAGAGCTGTTCGGGGCTCG 325
Qy 438 GCGAGCTACCGCGCGCGCGCGCGGAGGTGGTGGCGCGGTGGGTGGCGGCGGTAC 497
Db 326 GCGGGCTACCGCTGGACGGCGGTTCAGAGCGGTGGATCGCTGGCGCGGAGAGCGATAC 385
Qy 498 TACACCCACCGCAACAGCTGGCGG---CGGGCGGCGAGTGGCGCACTACAGG 551
Db 386 TACAAACCGCGCACACACTCTCGCGTCCGCTCGCGGCGAGTGGTGGCGGCACTACG 445
Qy 552 CAGGTGGTGGCGCACACCGCGGAGTGGGTGGCGG---AGGCGAGCTGGCGGACG 606
Db 446 CAGCTGGTGGCGCGGCTCCTACTGGCATCGATGGCGCGCGGTCTGTGCAACAGAAC 505
Qy 609 GGGCGCACGCTCAGCTCTCCCTGTACAAACCGCGCACGCTGCAGGCGGAGAGCGCC 668
Db 506 GCGCGGCTCTCATCTCACTATTACCGCGCGGCAACGCTGATTGACAGAGCCCT 565

QY 669 TACTAGTACCT 680
||||| | | |
DB 566 TACTAGCACTT 577

RESULT 10

US-10-259-165-345
; Sequence 345, Application US/10259165
; Publication No. US20030135888A1

GENERAL INFORMATION:

; APPLICANT: Zhu, Tong

; APPLICANT: Wang, Xun

; APPLICANT: Chang, Hur-sung

; APPLICANT: Briggs, Steven P.

; APPLICANT: Cooper, Bret

; APPLICANT: Glazebrook, Jane

; APPLICANT: Goff, Stephen A.

; APPLICANT: Kataqiri, Fumiya

; APPLICANT: Kreps, Joel

; APPLICANT: Moughamer, Todd

; APPLICANT: Provart, Nicholas

; APPLICANT: Rickes, Darrell

; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING

; FILE REFERENCE: 70030-NP

; CURRENT APPLICATION NUMBER: US/10/259,165

; CURRENT FILING DATE: 2002-09-26

; PRIOR FILING DATE: 2002-04-04

; PRIOR APPLICATION NUMBER: US 60/370,620

; PRIOR FILING DATE: 2002-03-27

; PRIOR APPLICATION NUMBER: US 60/325,277

; PRIOR FILING DATE: 2001-09-26

; NUMBER OF SEQ ID NOS: 782

; SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta

; SEQ ID NO 345

; LENGTH: 528

; TYPE: DNA

; ORGANISM: Oryza sativa

US-10-259-165-345

Query Match 13.18; Score 117.4; DB 12; Length 528;

Best Local Similarity 55.4%; Pred. No. 1.6e-16;

Matches 270; Conservative 0; Mismatches 211; Indels 6; Gaps 2;

QY 188 CCTATCCCGGCGCGCGCGGTGACAGGCGCAGCGGTGGCGACCGGCGAGCGG 247

DB 21 CCTCGCCCGGTGCTCGCGGTGGCCATCTCGCTGCGCATGGCGCCACACCACTC 80

QY 248 CAGCAACGCGACGCGCGCGGTGACCTGGCGCGCAGCAGCGCGCGCGCGCGCG 307

DB 81 GCGCAGAACACGCGCGCGGTGACCTGGCGCGCAGCAGCGCGCGCGCGCGCG 140

QY 308 CGTGGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 367

DB 141 CGTGGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 200

QY 368 GCACGCGCGCGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 427

DB 201 GCGCGCGCGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 257

QY 428 CCAGGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 487

DB 258 CTGGGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 317

QY 488 GGGCGGTGCTACACCGCGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 547

DB 318 GAAGAGAACTTACCACTACGACCAACACACACACACACACACACACACAC 377

QY 548 CACGCGGTGCTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 607

DB 378 CACCGAGGTGCTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 437

QY 608 G---GGCGCGGTGCTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 664

DB 438 GAACGGCGCGGTGCTCATCACCCTGACACTGACACCCCGCGGCACTTCACGGCGAGCG 497

QY 665 CCCCTAC 671

DB 498 CCCGTTT 504

RESULT 11

US-10-259-165-85

; Sequence 85, Application US/10259165

; Publication No. US20030135888A1

; GENERAL INFORMATION:

; APPLICANT: Zhu, Tong

; APPLICANT: Wang, Xun

; APPLICANT: Chang, Hur-sung

; APPLICANT: Briggs, Steven P.

; APPLICANT: Cooper, Bret

; APPLICANT: Glazebrook, Jane

; APPLICANT: Goff, Stephen A.

; APPLICANT: Kataqiri, Fumiya

; APPLICANT: Kreps, Joel

; APPLICANT: Moughamer, Todd

; APPLICANT: Provart, Nicholas

; APPLICANT: Rickes, Darrell

; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING

; FILE REFERENCE: 70030-NP

; CURRENT APPLICATION NUMBER: US/10/259,165

; CURRENT FILING DATE: 2002-09-26

; PRIOR FILING DATE: 2002-04-04

; PRIOR APPLICATION NUMBER: US 60/368,327

; PRIOR FILING DATE: 2002-03-27

; PRIOR APPLICATION NUMBER: US 60/325,277

; PRIOR FILING DATE: 2001-09-26

; NUMBER OF SEQ ID NOS: 782

; SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta

; SEQ ID NO 85

; LENGTH: 531

; TYPE: DNA

; ORGANISM: Oryza sativa

US-10-259-165-85

Query Match 13.18; Score 117.4; DB 12; Length 531;

Best Local Similarity 55.4%; Pred. No. 1.6e-16;

Matches 270; Conservative 0; Mismatches 211; Indels 6; Gaps 2;

QY 188 CCTATCCCGGCGCGCGGTGACAGGCGCAGCGGTGGCGACCGGCGAGCGG 247

DB 21 CCTCGCCCGGTGCTCGCGGTGGCCATCTCGCTGCGCATGGCGCCACACCACTC 80

QY 248 CAGCAACGCGACGCGCGGTGACCTGGCGCGCAGCAGCGCGCGCGCGCGCG 307

DB 81 GCGCAGAACACGCGCGGTGACCTGGCGCGCAGCAGCGCGCGCGCGCGCG 140

QY 308 CGTGGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 367

DB 141 CGTGGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 200

QY 368 GCACGCGCGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 427

DB 201 GCGCGCGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 257

QY 428 CCAGGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 487

DB 258 CTGGGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 317

QY 488 GGGCGGTGCTACACCGCGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 547

DB 318 GAAGAGAACTTACCACTACGACCAACACACACACACACACACACACAC 377

QY 548 CACGCGGTGCTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 607

DB 378 CACCGAGGTGCTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 437

QY 608 G---GGCGCGGTGCTGCGCGGTGCGCGGTGCGCGGTGCGCGGTGCGCGGT 664

Db 141 GGTGGGCGGCTGAGTGGGACCCCAAGGTGCGGAGCTTCGGCGAGAGCTAGCGGCGCAA 200
Qy 368 GCAGCGGCGGAGGGGTGGGGTTCGGAGAGTGGGGGCGCCAGCCCTACGGGCGCAA 427
Db 201 GCGCGCGCGGAGTGGCGGCTGCAGCACCTCCGGCGGCGGTACGGCGAGAACATCT--- 257
Qy 428 CCAGGGGTGGGGAGCTACGCGCGCGCCCGCGGAGGTGGTGGCTGTGGTGGCGGA 487
Db 258 CTGGGCTCGGGGGCGGCTTGGAGCGCCGCGAGCGGCTGGTGGTGGGGCGA 317
Qy 488 GGGGCGGTACTACACCCAGCCAAACACAGTGCGCCGGGGCGGCGAGTGGCGCACGTA 547
Db 318 GAAGAAGAACTACCACTACACACCAACACAGTGCAGCCGGGCAAGGTGTGGCGCACTA 377
Qy 548 CAGCGAGGTGGTGGCGCAACACCGCGAGTTCGGGTGCGCGAGCGGAGCTGGCGCAC 607
Db 378 CACCCAGGTGGTGGCGCAAGTGGTGGCGATCGGCTGCGCGCGGCTGGTGGCGGCG 437
Qy 608 G---GGCGCACGCTCACGCTGTGCTGTACAAACCGGACGCAACGTCAGGGCGCACAG 664
Db 438 GAACCGCGGCGTTCATCACCTGCACACACCGCGGCAACCTCCGCGCACTTCAGCGCGAGCG 497
Qy 665 CCCTAC 671
Db 498 CCGGTC 504

RESULT 14
US-10-259-165-23
; Sequence 23, Application US/10259165
; Publication No. US20030135888A1
; GENERAL INFORMATION:
; APPLICANT: Zhu, Tong
; APPLICANT: Wang, Xun
; APPLICANT: Chang, Hur-song
; APPLICANT: Briggs, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiaki
; APPLICANT: Kreps, Joel
; APPLICANT: Moughamer, Todd
; APPLICANT: Provart, Nicholas
; APPLICANT: Rickel, Darrell
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
; FILE REFERENCE: 70030-NP
; CURRENT APPLICATION NUMBER: US/10/259,165
; PRIOR FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/368,327
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
; SEQ ID NO 23
; LENGTH: 498
; TYPE: DNA
; ORGANISM: Oryza sativa
US-10-259-165-23

Query Match 12.2% Score 110; DB 12; Length 498;
Best Local Similarity 58.6% Pred. No. 6.6e-15;
Matches 251; Conservative 0; Mismatches 165; Indels 12; Gaps 3;
Qy 259 CGCGGAGAGTACCTGGCGCGCACAAACAGCGCGCGGTGGCGGTGGCGCGCGCG 318
Db 71 CGCGGAGAGTACCTGGCGCGCACAAACAGCGCGCGGTGGCGGTGGCGCGCGCG 130
Qy 319 TCGGTTGGAACGGCGGCTTGGTTCGGCGCGCGCGGTGGCGGTGGCGCGCGCGCG 378
Db 131 TGAGCTGGGACGACAGCGGTGGCGCGGTACGCGGAGAGCTACGCGGCGGCGGCGGCG 190

Qy 379 AGGCGGGTGGCGGTTCGGCGAGCTGGGAGCCAGCCCTACGGCGGCAACCGAGGGTGG 438
Db 191 ACTCGCGCTGGAGCACTCGGAGTCCGGCGGGAAGTACGGCGAGAACATCTTCGGGCT 250
Qy 439 CGAGTACCGCGCGGCGCGCGAG---GTGGTGGGTGTGGGTGGGGAGGGCGGT 495
Db 251 CGCGCGGGGAGTGGAGCGCGGAGCGCGGTGTCTGCTGGTGGTGGCGGAGAGCACT 310
Qy 496 ACTACACCCAGCCAAACACACGTCG-----GCCGCGGGGGCGGCGAGTGGCGCACGTACA 549
Db 311 GGTACGACACGACAGCAACAGCTGCTCGCGCGCGCGGAGAGTCTGTCGGGCGCACTACA 370
Qy 550 CGCAGGTGGTGGCGCAACACCGCGAGTTCGGGTGCGCGGAGCGCACTGGCGCACGG 609
Db 371 CGCAGGTGGTGGAGCAACTCGACGCGATCGGCTGGCGCGCGCGGTCTGTGCGCAACA 430
Qy 610 G---CGCGACGCTCACGCTGTGCTGTACAAACCGGACGCAACGTCAGGGCGCGAGCG 666
Db 431 GCCTCGCGGTCTTCATCACCTGCACACTACTCGCGCGCGGCGCAACGTCGAGGGCACTTC 490
Qy 667 CCTACTAG 674
Db 491 CCTACTAG 493

RESULT 15
US-10-259-165-177
; Sequence 177, Application US/10259165
; Publication No. US20030135888A1
; GENERAL INFORMATION:
; APPLICANT: Zhu, Tong
; APPLICANT: Wang, Xun
; APPLICANT: Chang, Hur-song
; APPLICANT: Briggs, Steven P.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Katagiri, Fumiaki
; APPLICANT: Kreps, Joel
; APPLICANT: Moughamer, Todd
; APPLICANT: Provart, Nicholas
; APPLICANT: Rickel, Darrell
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
; FILE REFERENCE: 70030-NP
; CURRENT APPLICATION NUMBER: US/10/259,165
; PRIOR FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/368,327
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
; SEQ ID NO 177
; LENGTH: 498
; TYPE: DNA
; ORGANISM: Oryza sativa
US-10-259-165-177

Query Match 12.2% Score 110; DB 12; Length 498;
Best Local Similarity 58.6% Pred. No. 6.6e-15;
Matches 251; Conservative 0; Mismatches 165; Indels 12; Gaps 3;
Qy 259 CGCGGAGAGTACCTGGCGCGCACAAACAGCGCGCGGTGGCGGTGGCGCGCGCG 318
Db 71 CGCGGAGAGTACCTGGCGCGCACAAACAGCGCGCGGTGGCGGTGGCGCGCGCG 130
Qy 319 TCGGTTGGAACGGCGGCTTGGTTCGGCGCGCGCGGTGGCGGTGGCGCGCGCGCG 378
Db 131 TGAGCTGGGACGACAGCGGTGGCGCGGTACGCGGAGAGCTACGCGGCGGCGGCGGCG 190

GenCore version: 5.1.6
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OM protein - protein search, using sw model

Run on: October 17, 2003, 14:05:52 : Search time 50 Seconds
 (without alignments)
 565,503 Million cell updates/sec

Title: US-09-832-320-2
 Perfect score: 1085
 Sequence: 1 MAHRSRHHLLLLPAPMATA.....ATLFLCLNPNGVGQSPY 203

Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Searched: 609560 seqs, 16397102 residues 609560

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2.6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2.6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2.6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2.6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2.6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2.6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2.6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2.6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2.6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2.6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2.6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2.6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2.6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2.6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2.6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2.6/ptodata/1/pubpaa/US10C_NEW_PUB.pep.*
- 17: /cgn2.6/ptodata/1/pubpaa/US10C_NEW_PUB.pep.*
- 18: /cgn2.6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1085	100.0	203	9	US-09-832-320-2
2	331	30.5	163	9	US-09-840-479-13
3	331	30.5	163	14	US-10-078-929-202
4	304	28.0	165	12	US-10-259-165-24
5	304	28.0	165	12	US-10-259-165-178
6	304	28.0	165	12	US-10-259-165-446
7	301.5	27.8	175	12	US-10-259-165-204
8	300.5	27.7	171	14	US-10-068-347-4
9	287	26.5	176	14	US-10-078-929-82
10	287	26.5	176	12	US-10-259-165-86
11	287	26.5	176	12	US-10-259-165-346
12	287	26.5	176	14	US-10-078-929-86
13	287	26.5	280	12	US-10-259-165-174
14	280.5	25.9	167	14	US-10-078-929-100
15	267	24.6	136	15	US-10-091-135-83

16	259.5	23.9	164	14	US-10-078-929-84	Sequence 84, Appl
17	255	23.5	161	14	US-10-078-929-96	Sequence 96, Appl
18	254	23.4	190	14	US-10-078-929-90	Sequence 90, Appl
19	248	22.9	139	14	US-10-078-929-94	Sequence 94, Appl
20	246	22.7	175	12	US-10-142-224-84	Sequence 84, Appl
21	240	22.1	156	9	US-09-840-479-7	Sequence 7, Appl
22	240	22.1	156	14	US-10-078-929-98	Sequence 98, Appl
23	231	21.3	166	14	US-10-068-347-2	Sequence 2, Appl
24	223.5	20.6	94	14	US-10-068-347-10	Sequence 10, Appl
25	217.5	20.0	214	9	US-09-840-479-15	Sequence 15, Appl
26	199	18.3	112	14	US-10-078-929-88	Sequence 88, Appl
27	197	18.2	140	14	US-10-078-929-92	Sequence 92, Appl
28	193.5	17.8	455	9	US-09-866-028-50	Sequence 50, Appl
29	193.5	17.8	455	10	US-09-944-449-50	Sequence 50, Appl
30	193.5	17.8	455	10	US-09-944-457-50	Sequence 50, Appl
31	193.5	17.8	455	10	US-09-944-862-50	Sequence 50, Appl
32	193.5	17.8	455	10	US-09-945-587-50	Sequence 50, Appl
33	193.5	17.8	455	10	US-09-945-015-50	Sequence 50, Appl
34	193.5	17.8	455	10	US-09-944-796-50	Sequence 50, Appl
35	193.5	17.8	455	10	US-09-944-097-50	Sequence 50, Appl
36	193.5	17.8	455	10	US-09-944-432-50	Sequence 50, Appl
37	193.5	17.8	455	10	US-09-943-762-50	Sequence 50, Appl
38	193.5	17.8	455	10	US-09-944-654-50	Sequence 50, Appl
39	193.5	17.8	455	10	US-09-943-851A-50	Sequence 50, Appl
40	193.5	17.8	455	10	US-09-944-413-50	Sequence 50, Appl
41	193.5	17.8	455	10	US-09-944-403-50	Sequence 50, Appl
42	193.5	17.8	455	10	US-09-944-896-50	Sequence 50, Appl
43	193.5	17.8	455	10	US-09-944-944-50	Sequence 50, Appl
44	193.5	17.8	455	10	US-09-944-929-50	Sequence 50, Appl
45	193.5	17.8	455	10	US-09-944-907-50	Sequence 50, Appl

ALIGNMENTS

RESULT 1

US-09-832-320-2
 : Sequence 2, Application US/09832320
 : Patent No. US20010049834A1
 : GENERAL INFORMATION:
 : APPLICANT: Crane, Edmund H.
 : TITLE OF INVENTION: Maize Pathogenesis-Related
 : TITLE OF INVENTION: Polynucleotide and Methods of Use
 : FILE REFERENCE: 3518/214291
 : CURRENT APPLICATION NUMBER: US/09/832.320
 : CURRENT FILING DATE: 2001-04-10
 : PRIOR APPLICATION NUMBER: US 60/195,801
 : PRIOR FILING DATE: 2000-04-10
 : NUMBER OF SEQ ID NOS: 3
 : SOFTWARE: FASTSEQ for Windows Version 4.0
 : SEQ ID NO 2
 : TYPE: PNT
 : ORGANISM: Zea mays
 US-09-832-320-2

Query Match	100.0%	Score	1085	DB	9	Length	203
Best Local Similarity	100.0%	Pred. No.	2.66-92				
Matches	203	Conservative	0	Mismatches	0	Indels	0
QY	1	MAHRSRHHLLLLPAPMATA	ACILLATLALCAAPHTGARKVLMPPGGAGATKAOQGGTG	60			
DB	1	MAHRSRHHLLLLPAPMATA	ACILLATLALCAAPHTGARKVLMPPGGAGATKAOQGGTG	60			
QY	51	SGSNATDEYLAPHNOARAAVGVAFLRWNLGASAAAGTVAQRRQGGCAADVWASPYG	120				
DB	61	SGSNATDEYLAPHNOARAAVGVAFLRWNLGASAAAGTVAQRRQGGCAADVWASPYG	120				
QY	121	ANQWASVRRAPAEVVALWVAEGRYTHANTNTCAAGKOCGTYTQVWNTAEVCAQASC	180				
DB	121	ANQWASVRRAPAEVVALWVAEGRYTHANTNTCAAGKOCGTYTQVWNTAEVCAQASC	180				

QY	181 ATGATTTCTCYNPHGNVCCOSPY 203
Db	181 ATGATTTCTCYNPHGNVCCOSPY 203

RESULT 2

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US-09-840-479-13
: Sequence 13, Application US/09840479
: Patent No. US20010025380A1
: GENERAL INFORMATION:
: APPLICANT: Crane, Virginia
: TITLE OF INVENTION: Family Of Maize Pr-1 Genes And Promoters
: FILE REFERENCE: 5718-32, 635718/175219
: CURRENT APPLICATION NUMBER: US/09/840,479
: CURRENT FILING DATE: 2001-04-23
: PRIOR APPLICATION NUMBER: 09/257,583
: PRIOR FILING DATE: 1999-02-25
: NUMBER OF SEQ ID NOS: 37
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 13
: LENGTH: 163
: TYPE: PRT
: ORGANISM: Zea mays
US-09-840-479-13

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Query Match	30.5%	Score 331;	DB 9;	Length 163;
Best Local Similarity	39.0%;	Pred. No. 6,4e-23;		
Matches	73;	Conservative 21;	Mismatches 61;	Indels 32; Gaps 6;
QY	20	ACLLLATLLALCAAPATHCARVLMPGAGAV-KAQOQGTGSGSNATADEWLAPHNGARA	79	
		: :		: :
Db	6	ACLLALMAAIVAPC-----TQNSQD-YVDPHNAARA	39	
QY	80	AVGVAPLWNWAGLASAAAGTVAQORRGCGCAFADVGASPYCAGQGWASYRA--RPAEVVA	137	
		: : : : : : : :		
Db	40	DVGVGVPVSNQDVAAYAQSYAAQ--ROGDCQLTHSG-GPYGENLFWGSAGADWSASDAVG	96	
QY	138	LWAEEGRYTHANNTCAGAGCQCTYTOVWRNNTAEVGCQAASCATGA-ILTLCLYNPEGN	196	
		: : : : : : : : : : : : : :		
Db	97	SWVSEKQYDHDINSCAEQGVCGHYTOVWRDSTAIGCARVVDNNAGVFIIICSYNPPGN	156	
QY	197	VQGQSPY 203		
		:		
Db	157	VVGESPY 163		

RESULT 3

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US-10-078-929-202
? Sequence 202, Application US/10078929
? Publication No. US20020:52497A:
? GENERAL INFORMATION:
? APPLICANT: Rafalski, Antoni
? APPLICANT: Miao, Guo-Hua
? APPLICANT: Falco, Saverio Carl
? APPLICANT: Sakai, Hajime
? APPLICANT: Famodu, Omolayo O.
? APPLICANT: Cdell, Joan T.
? APPLICANT: Meyers, Blake
? APPLICANT: Thorpe, Catherine
? APPLICANT: Weng, Zude
? TITLE OF INVENTION: Nucleic Acid Fragments Encoding Proteins Involved in
? TITLE OF INVENTION: Stress Response
? FILE REFERENCE: HB1357 US NA
? CURRENT APPLICATION NUMBER: US/10/078,929
? CURRENT FILING DATE: 2002-02-19
? PRIOR APPLICATION NUMBER: 09/565,394
? PRIOR FILING DATE: 2000-05-05
? PRIOR APPLICATION NUMBER: 60/133038
? PRIOR FILING DATE: 1999-05-07
? PRIOR APPLICATION NUMBER: 60/133042
? PRIOR FILING DATE: 1999-05-07
? PRIOR APPLICATION NUMBER: 60/133427
? PRIOR FILING DATE: 1999-05-11

```

```

: PRIOR APPLICATION NUMBER: 60/133437
: PRIOR FILING DATE: 1999-05-11
: PRIOR APPLICATION NUMBER: 60/133428
: PRIOR FILING DATE: 1999-05-11
: PRIOR APPLICATION NUMBER: 60/133438
: PRIOR FILING DATE: 1999-05-11
: PRIOR APPLICATION NUMBER: 60/133436
: PRIOR FILING DATE: 1999-05-11
: PRIOR APPLICATION NUMBER: 60/137667
: PRIOR FILING DATE: 1999-06-04
: NUMBER OF SEQ ID NOS: 208
: SOFTWARE: Microsoft Office 97
: SEQ ID NO 202
: LENGTH: 163
: TYPE: PRT
: ORGANISM: Zea mays
US-10-078-995-202

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Query Match      30.5%  Score 331;  DB 14;  Length 163;
Host local Similarity 39.0%;  Pred. No. 6.4e-23;
Matches 73;  Conservative 21;  Mismatches 61;  Indels 32;  Gaps 6;

QY      20  ACILLA:LLALCAAPATHCARV:MPGAGAVTKAQCGGTGSGNATADEV:LAPHNARA 79
      ||| : : : ||| : : : : : : : : : : : : : : : : : : : : : :
DB      6  ACILALAMAAIVAPC:-----TAQNSPQD-YVDPHNARA 39

QY      80  AVGVAPLRWNAGLASAAAGTVAQORROGCCAFADVGAHPYAGCWGASYRA--RPAEYVA 137
      ||| : : : ||| : : : ||| : : : ||| : : : ||| : : : ||| : : :
DB      40  DVGVGVPVMDTVAAYACQSYAAO--RGDCKLLHSG-SPYGENLFMGASAGADWSASDAVG 96

QY      138  LWVAEGRYITHANTCAAGPQCCTYTOVVRNRTAEVGCQAQASCATGA-TTLCILYNPHGN 196
      ||| : ||| : ||| : ||| : ||| : ||| : ||| : ||| : ||| : ||| :
DB      97  SWVSEKQYDHDNTSCAEGQVCQHYTOVVRDSTAIGCARVVCDDNAGVF:ICSYNPPGN 156

QY      197  VQGSPY 203
      | : |||
DB     157  VVGESPY 163

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RESULT 4

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US-10-259-165-24
; Sequence 24, Application US/10259165
; Publication No. US20030135888A1
; GENERAL INFORMATION:
; APPLICANT: Zhu, Tong
; APPLICANT: Wang, Xun
; APPLICANT: Chang, Hui-song
; APPLICANT: Briggs, Steven F.
; APPLICANT: Cooper, Bret
; APPLICANT: Glazebrook, Jane
; APPLICANT: Goff, Stephen A.
; APPLICANT: Kataqiri, FumiYaki
; APPLICANT: Kreps, Joel
; APPLICANT: Moughamer, Todd
; APPLICANT: Provart, Nicholas
; APPLICANT: Ricks, Dartsell
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
; FILE REFERENCE: 70030-NP
; CURRENT APPLICATION NUMBER: US-0/259,165
; CURRENT FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 60/370,620
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: US 60/358,327
; PRIOR FILING DATE: 2002-03-27
; PRIOR APPLICATION NUMBER: US 60/325,277
; PRIOR FILING DATE: 2001-09-26
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: Patentlist.pl version 3.0.4 (C) 2001 Syngenta
; SEQ ID NO 24
; LENGTH: 165
; TYPE: PRI
; ORGANISM: Oryza sativa
; US-10-259-165-24

```



```
RESULT 10
US-10-259-165-86
: Sequence 86, Application US/10259165
: Publication No. US20030135888A1
: GENERAL INFORMATION:
: APPLICANT: Zhu, Tong
: APPLICANT: Wang, Xun
: APPLICANT: Chang, Hur-song
: APPLICANT: Briggs, Steven P.
: APPLICANT: Cooper, Bret
: APPLICANT: Glazebrook, Jane
: APPLICANT: Goff, Stephen A.
: APPLICANT: Katagiri, Fumiaki
: APPLICANT: Kreps, Joel
: APPLICANT: Moughamer, Todd
: APPLICANT: Provart, Nicholas
: APPLICANT: Ricke, Darrell
: TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
: CURRENT APPLICATION NUMBER: US/10/259,165
: CURRENT FILING DATE: 2002-09-26
: PRIOR APPLICATION NUMBER: US 60/370,620
: PRIOR FILING DATE: 2002-04-04
: PRIOR APPLICATION NUMBER: US 60/368,327
: PRIOR FILING DATE: 2002-03-27
: PRIOR APPLICATION NUMBER: US 60/325,277
: PRIOR FILING DATE: 2001-09-26
: NUMBER OF SEQ ID NOS: 782
: SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
: SEQ ID NO 86
: LENGTH: 176
: TYPE: PRT
: ORGANISM: Oryza sativa
US-10-259-165-86

Query Match      26.5%  Score 287;  DB 12;  Length 176;
Best Local Similarity 40.0%;  Pred. No. 7,9e-19;
Matches 70;  Conservative 22;  Mismatches 71;  Indels 12;  Gaps 7;

QY 33 APATHGARVLMPGGAGAVTKAQQGGTSGSNATADEYLAPHNOARAAGVATLRNAGL 92
DB 2 APSKVSLLAAVL----AVALSIAAAATTTSAONTPODYVNLHNSARRADGVPVSWDFKV 57
QY 93 ASAAAGTVAQORROGCGCAFDVGPASPYGANOGWASY-RA-RPAEVVALWVAEGRYVYHAN 150
DB 58 ASFAQSYAA--KRAQDRLQHSG-GPYGENIFWGSAGRAWSAADAVASWVGKKNYHYDT 114
QY 151 NTCAGROCCGYTQVWVRNTAEVGAQASCAT--GATLTCLYNPHGNVQGSPPY 203
DB 1-5 NIDDPKGVCGHYTQVWVRKSRIGCARVCAANRGVFT-CNYDPPGNFNGERPE 168

RESULT 11
US-10-259-165-346
: Sequence 346, Application US/10259165
: Publication No. US20030135888A1
: GENERAL INFORMATION:
: APPLICANT: Zhu, Tong
: APPLICANT: Wang, Xun
: APPLICANT: Chang, Hur-song
: APPLICANT: Briggs, Steven P.
: APPLICANT: Cooper, Bret
: APPLICANT: Glazebrook, Jane
: APPLICANT: Goff, Stephen A.
: APPLICANT: Katagiri, Fumiaki
: APPLICANT: Kreps, Joel
: APPLICANT: Moughamer, Todd
: APPLICANT: Provart, Nicholas
: APPLICANT: Ricke, Darrell
: TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING
: FILE REFERENCE: 70030-NP
: CURRENT APPLICATION NUMBER: US/10/259,165
: CURRENT FILING DATE: 2002-09-26
: PRIOR APPLICATION NUMBER: US 60/370,620
: PRIOR FILING DATE: 2002-04-04
: PRIOR APPLICATION NUMBER: US 60/368,327
: PRIOR FILING DATE: 2002-03-27
: PRIOR APPLICATION NUMBER: US 60/325,277
: PRIOR FILING DATE: 2001-09-26
: NUMBER OF SEQ ID NOS: 782
: SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta
: SEQ ID NO 86
: LENGTH: 176
: TYPE: PRT
: ORGANISM: Oryza sativa
US-10-259-165-86

Query Match      26.5%  Score 287;  DB 12;  Length 176;
Best Local Similarity 40.0%;  Pred. No. 7,9e-19;
Matches 70;  Conservative 22;  Mismatches 71;  Indels 12;  Gaps 7;

QY 33 APATHGARVLMPGGAGAVTKAQQGGTSGSNATADEYLAPHNOARAAGVATLRNAGL 92
DB 2 APSKVSLLAAVL----AVALSIAAAATTTSAONTPODYVNLHNSARRADGVPVSWDFKV 57
QY 93 ASAAAGTVAQORROGCGCAFDVGPASPYGANOGWASY-RA-RPAEVVALWVAEGRYVYHAN 150
DB 58 ASFAQSYAA--KRAQDRLQHSG-GPYGENIFWGSAGRAWSAADAVASWVGKKNYHYDT 114
QY 151 NTCAGROCCGYTQVWVRNTAEVGAQASCAT--GATLTCLYNPHGNVQGSPPY 203
DB 1-5 NIDDPKGVCGHYTQVWVRKSRIGCARVCAANRGVFT-CNYDPPGNFNGERPE 168

RESULT 12
US-10-078-929-86
: Sequence 86, Application US/10078529
: Publication No. US20020152497A1
: GENERAL INFORMATION:
: APPLICANT: Rafalski, Antoni
: APPLICANT: Miao, Guo-Hua
: APPLICANT: Falco, Saverio Carl
: APPLICANT: Sakai, Hajime
: APPLICANT: Famodu, Omlayo O.
: APPLICANT: Odell, Joan T.
: APPLICANT: Meyers, Blake
: APPLICANT: Thorpe, Catherine
: APPLICANT: Weng, Zude
: TITLE OF INVENTION: Nucleic Acid Fragments Encoding Proteins Involved in
: FILE REFERENCE: B01357 US NA
: CURRENT APPLICATION NUMBER: US/10/078,929
: CURRENT FILING DATE: 2002-02-19
: PRIOR APPLICATION NUMBER: 09/566,494
: PRIOR FILING DATE: 2000-05-05
: PRIOR APPLICATION NUMBER: 60/133038
: PRIOR FILING DATE: 1999-05-07
: PRIOR APPLICATION NUMBER: 60/133042
: PRIOR FILING DATE: 1999-05-07
: PRIOR APPLICATION NUMBER: 60/133427
: PRIOR FILING DATE: 1999-05-11
: PRIOR APPLICATION NUMBER: 60/133437
: PRIOR FILING DATE: 1999-05-11
: PRIOR APPLICATION NUMBER: 60/133428
: PRIOR FILING DATE: 1999-05-11
: PRIOR APPLICATION NUMBER: 60/133438
: PRIOR FILING DATE: 1999-05-11
: PRIOR APPLICATION NUMBER: 60/133436
: PRIOR FILING DATE: 1999-05-11
: PRIOR APPLICATION NUMBER: 60/137667
: PRIOR FILING DATE: 1999-06-04
: NUMBER OF SEQ ID NOS: 208
: SOFTWARE: Microsoft Office 97
: SEQ ID NO 86
: LENGTH: 176
: TYPE: PRT
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US-10-078-929-86
; ORGANISM: Cryza sativa
; Sequence 100, Application US/10-078-929
; Publication No. US20020152497A1
; GENERAL INFORMATION:
; APPLICANT: Rafalski, Antoni
; APPLICANT: Miao, Guo-Hua
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Sakai, Hajime
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Odell, Joan T.
; APPLICANT: Meyers, Blake
; APPLICANT: Thorpe, Catherine
; APPLICANT: Weng, Zude
; TITLE OF INVENTION: Nucleic Acid Fragments Encoding Proteins Involved in:
; FILE REFERENCE: BB1357 US NA
; CURRENT FILING DATE: 2002-02-19
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: 09/566,394
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/133038
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133042
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133427
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133437
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133428
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133438
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133436
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/137667
; PRIOR FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 100
; LENGTH: 167
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-10-078-929-100
Query Match 25.9%, Score 280.5, DB 14, Length 167;
Best Local Similarity 35.7%, Pred. No. 3e-18;
Matches 70; Conservative 26; Mismatches 61; Indels 39; Gaps 8;

QY 15 APMTACLLLLATLLALCAAPAPTHCARVLMFGGAGAVTKAQCGCTGSSSNATADFLAPH 74
DB 4 SPKLSVLLLLALASAM-----VVVTAQN-----SFQDFVDPH 35
QY 75 NOARAAGVAPLRNAGLASAAAGTACQRRGGCAF-----ADVGSPPYGANQWASYRA 130
DB 36 NAARADVGVPVTDNDVA-AYQNYAFORH-GDCQLVHSSGGYGENIYGRGGADWTA 93
QY 131 RPAEVVALWVAEGRYTHANNITCA--AGRCGTVTQVWNTAEVCAQASCATGATL-T 187
DB 94 --ADAVQAWSEKQYVDHSGNSCAPADKSLHYIQVWRDSTAIGCARVVCDDGLFI 151
QY 188 LCLYNPHNGVQGSPPY 203
DB 152 ICSYNPPNGVGSPPY 167

RESULT 15
US-10-091-135-83
; Sequence 89, Application US/10091135
; Publication No. US20030039660A1
; GENERAL INFORMATION:
; APPLICANT: King, Te Piao
; APPLICANT: Spangfort, Michael Dho
; TITLE OF INVENTION: RECOMBINANT HYBRID ALLERGEN CONSTRUCTS WITH REDUCED
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US-10-078-929-86
; ORGANISM: Cryza sativa
; Sequence 100, Application US/10-078-929
; Publication No. US20020152497A1
; GENERAL INFORMATION:
; APPLICANT: Rafalski, Antoni
; APPLICANT: Miao, Guo-Hua
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Sakai, Hajime
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Odell, Joan T.
; APPLICANT: Meyers, Blake
; APPLICANT: Thorpe, Catherine
; APPLICANT: Weng, Zude
; TITLE OF INVENTION: Nucleic Acid Fragments Encoding Proteins Involved in:
; FILE REFERENCE: BB1357 US NA
; CURRENT FILING DATE: 2002-02-19
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: 09/566,394
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/133038
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133042
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133427
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133437
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133428
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133438
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133436
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/137667
; PRIOR FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 100
; LENGTH: 167
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-10-078-929-100
Query Match 25.9%, Score 280.5, DB 14, Length 167;
Best Local Similarity 35.7%, Pred. No. 3e-18;
Matches 70; Conservative 26; Mismatches 61; Indels 39; Gaps 8;

QY 15 APMTACLLLLATLLALCAAPAPTHCARVLMFGGAGAVTKAQCGCTGSSSNATADFLAPH 74
DB 4 SPKLSVLLLLALASAM-----VVVTAQN-----SFQDFVDPH 35
QY 75 NOARAAGVAPLRNAGLASAAAGTACQRRGGCAF-----ADVGSPPYGANQWASYRA 130
DB 36 NAARADVGVPVTDNDVA-AYQNYAFORH-GDCQLVHSSGGYGENIYGRGGADWTA 93
QY 131 RPAEVVALWVAEGRYTHANNITCA--AGRCGTVTQVWNTAEVCAQASCATGATL-T 187
DB 94 --ADAVQAWSEKQYVDHSGNSCAPADKSLHYIQVWRDSTAIGCARVVCDDGLFI 151
QY 188 LCLYNPHNGVQGSPPY 203
DB 152 ICSYNPPNGVGSPPY 167

RESULT 15
US-10-091-135-83
; Sequence 89, Application US/10091135
; Publication No. US20030039660A1
; GENERAL INFORMATION:
; APPLICANT: King, Te Piao
; APPLICANT: Spangfort, Michael Dho
; TITLE OF INVENTION: RECOMBINANT HYBRID ALLERGEN CONSTRUCTS WITH REDUCED
```


GenCore version 5.1.6
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OM protein - protein search, using sw mode:

Run on: October 17, 2003, 12:46:51 : Search time 27 Seconds
(without alignments)
318.115 Million cell updates/sec

Title: US-09-832-320-2

Perfect score: 1085
Sequence: 1 MAHSRSHHLLLLPAPMATA.....ATLILCLYNPHGNVQGSPPY 203

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : issued_patents_AA.*
1: /cqn2_6/ptodata/2/iaa/5A_CCM3.pep.*
2: /cqn2_6/ptodata/2/iaa/5B_CCM3.pep.*
3: /cqn2_6/ptodata/2/iaa/6A_CCM3.pep.*
4: /cqn2_6/ptodata/2/iaa/6B_CCM3.pep.*
5: /cqn2_6/ptodata/2/iaa/PC705_COMP.pep.*
6: /cqn2_6/ptodata/2/iaa/backfiles*.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	331	30.5	163	4	US-09-257-583-13
2	303	27.9	139	2	US-07-857-224B-102
3	299	27.6	141	2	US-07-857-224B-104
4	296	27.3	138	2	US-07-857-224B-100
5	286	26.4	168	1	US-08-181-271A-45
6	286	26.4	168	1	US-08-445-315-45
7	286	26.4	168	1	US-08-445-803-45
8	286	26.4	168	1	US-08-449-043-45
9	286	26.4	168	1	US-08-458-265A-45
10	286	26.4	168	1	US-08-458-416-45
11	286	26.4	168	1	US-08-459-244-45
12	286	26.4	168	1	US-08-454-876-45
13	286	26.4	168	2	US-06-457-364-45
14	286	26.4	168	2	US-08-456-262-45
15	286	26.4	168	2	US-08-456-240-45
16	286	26.4	168	2	US-08-455-736-45
17	286	26.4	168	2	US-08-971-217-45
18	286	26.4	168	3	US-09-350-600-45
19	284	26.2	139	2	US-07-857-224B-101
20	283.5	26.1	167	2	US-08-773-368-5
21	283.5	26.1	167	2	US-09-193-887-5
22	283	26.1	171	2	US-08-773-368-6
23	283	26.1	171	3	US-09-199-887-6
24	281.5	25.9	135	2	US-07-857-224B-99
25	278.5	25.7	135	2	US-07-857-224B-97
26	277.5	25.6	135	2	US-07-857-224B-98
27	260	24.0	177	1	US-08-181-271A-46

28	260	24.0	177	1	US-08-449-315-46	Sequence 46, Appl
29	260	24.0	177	1	US-08-445-803-45	Sequence 46, Appl
30	260	24.0	177	1	US-08-449-043-45	Sequence 46, Appl
31	260	24.0	177	1	US-08-456-265A-46	Sequence 46, Appl
32	260	24.0	177	1	US-08-455-416-46	Sequence 46, Appl
33	260	24.0	177	1	US-08-455-244-46	Sequence 46, Appl
34	260	24.0	177	1	US-08-454-876-46	Sequence 46, Appl
35	260	24.0	177	2	US-08-457-364-46	Sequence 46, Appl
36	260	24.0	177	2	US-08-456-262-46	Sequence 46, Appl
37	260	24.0	177	2	US-08-456-240-46	Sequence 46, Appl
38	260	24.0	177	2	US-08-455-736-46	Sequence 46, Appl
39	260	24.0	177	2	US-08-971-217-46	Sequence 46, Appl
40	260	24.0	177	3	US-09-350-600-46	Sequence 46, Appl
41	240	22.1	156	4	US-09-257-583-7	Sequence 7, Appl
42	238	21.9	135	2	US-07-857-224B-103	Sequence 103, App
43	235	21.7	114	2	US-07-857-224B-107	Sequence 107, App
44	228	21.0	114	2	US-07-857-224B-108	Sequence 108, App
45	217.5	20.0	214	4	US-09-257-583-15	Sequence 15, Appl

ALIGNMENTS

RESULT 1
US-09-257-583-13
: Sequence 13, Application US/09257583A
: Patent No. 6429362
: GENERAL INFORMATION:
: APPLICANT: Grange, Virginia
: TITLE OF INVENTION: Family of Maize PR-1 Genes And Promoters
: FILE REFERENCE: 5718-32, 035718/175219
: CURRENT APPLICATION NUMBER: US/09/257,583A
: CURRENT FILING DATE: 1999-02-25
: NUMBER OF SEQ ID NOS: 37
: SOFTWARE: Patentin Ver. 2.0
: SEQ ID NO 13
: LENGTH: 163
: TYPE: PRT
: ORGANISM: Zea mays
US 09-257-583-13

Query Match 30.5%; Score 331; DB 4; Length 163;
Best Local Similarity 39.0%; Pred. No. 6, 6e-27;
Matches 73; Conservative 21; Mismatches 61; Indels 32; Gaps 6;

QY	20	ACLLATLTLCAAPATHGAVLMPGAGAVTRAAQGGTGGSNATADVLAHNGARA	79
DB	6	ACILALAMAAVVAFC-----TAQNSPOD-YVDPHNAARA	39
QY	80	AVGVAPLRWNLGASAAAGTVAQCRGGSCAFADVGASPYGANGCWASYRA--RPAEYVA	137
DB	40	DVGVPVSCDPTVAAYAQSYAAQ--RQGDCLIHSG-GPYGPNLFWGSGAGADMSADAVG	96
QY	138	LVVAGRYTHANNTCAAGRCUGTGTQVWNTAEVGCAGACATGA-TITLCLYNPHGN	194
DB	97	SWVSEKQYDHDINSACGCVGCHYIQVWRDSTAIGCARVVCNNAGVFTICSYNPHGN	156
QY	197	VOGQSPY 203	
DB	157	VVGRSPY 163	

RESULT 2
US-07-857-224B-102
: Sequence 102, Application US/07857224B
: Patent No 5958784
: GENERAL INFORMATION:
: APPLICANT: Benner, Steven A.
: TITLE OF INVENTION: Predicting Folded Structures of Proteins
: NUMBER OF SEQUENCES: 114
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Steven A. Benner
: STREET: Hadlaubstrasse 151

```

1 CITY: Zurich
2 STATE: none
3 COUNTRY: Switzerland
4 ZIP: (note: this is an international post code) CH-8092
5 COMPUTER READABLE FORM:
6 MEDIUM TYPE: 3.5 inch diskette, 1.4 Mb storage
7 OPERATING SYSTEM: Macintosh 7.0
8 SOFTWARE: Microsoft Word
9 CURRENT APPLICATION DATA:
10 APPLICATION NUMBER: US/07/857,224B
11 FILING DATE: 03/25/92
12 CLASSIFICATION: 436
13 PRIOR APPLICATION DATA: none
14 TELECOMMUNICATION INFORMATION:
15 TELEPHONE: (international) 41 1 632 2830
16 TELEFAX: (international) 41 1 262 2437
17 TELEX: none
18 INFORMATION FOR SEQ ID NO: 102:
19 SEQUENCE CHARACTERISTICS:
20 LENGTH: 139
21 TYPE: amino acid
22 TOPOLOGY: linear
23 MOLECULE TYPE:
24 DESCRIPTION: protein
25 ORIGINAL SOURCE:
26 ORGANISM: tobacco
27 FEATURE: Pathogenesis related protein; Table 16 Row 6
28 PUBLICATION INFORMATION:
29 AUTHORS:
30 AUTHORS: Cutt, J. R.
31 AUTHORS: Dixon, D. C.
32 AUTHORS: Carr, J. P.
33 AUTHORS: Klessig, D. F.
34 TITLE: Isolation and nucleotide sequence of cDNA clones for the
35 TITLE: Pathogenesis related proteins of Nicotiana tabacum induced by TMV
36 TITLE: Infection.
37 JOURNAL: Nucleic Acids Research
38 VOLUME: 16
39 PAGES: 9861
40 DATE: 1988
41 US-07-857-224B-102
42
43 Query Match 27.98; Score 303; DB 2; Length 139;
44 Best Local Similarity 46.18; Pred. No. 4.4e-24;
45 Matches 65; Conservative 15; Mismatches 47; Indels 14; Gaps 4;
46
47 QY 69 EYLAPHNOARAAGVAPLRNAGLASAAAGTVAQQRGGCAADGVA---SPYGAN-- 122
48 DB 7 DYLDHNTARADGVLEPLTDWNGVAAYAYQNSQ-----LAADCNLVHSHQYGENLA 59
49
50 QY 123 QGMASYRAHRAEVVALKVAAGRYTHANTCAAGROCGTGTGVVWRNTAEVGCQAASCAT 182
51 DB 63 QCGSDPMT-AAKAVEMVYDEKDYDHDSDNTCAQGGVCGHYTGVVWRNSVRVGCARVKCN 119
52
53 QY 183 GATITLCILYNPHGNVQGSPPY 203
54 DB 119 GGVVSCNYPDPGNVICQSPY 139
55
56 RESULT 3
57 US-07-857-224B-104
58 Sequence 104, Application US/07857224B
59 Patent No. 5958784
60 GENERAL INFORMATION:
61 APPLICANT: Benner, Steven A.
62 TITLE OF INVENTION: Predicting Folded Structures of Proteins
63 NUMBER OF SEQUENCES: 114
64 CORRESPONDENCE ADDRESS:
65 ADDRESSEE: Steven A. Benner
66 STREET: Hadlaubstrasse 151
67 CITY: Zurich
68 STATE: none
69 COUNTRY: Switzerland
70 ZIP: (note: this is an international post code) CH-8092
71
72 CITY: Zurich
73 STATE: none
74 COUNTRY: Switzerland
75 ZIP: (note: this is an international post code) CH-8092
76 COMPUTER READABLE FORM:
77 MEDIUM TYPE: 3.5 inch diskette, 1.4 Mb storage
78 OPERATING SYSTEM: Macintosh 7.0
79 SOFTWARE: Microsoft Word
80 CURRENT APPLICATION DATA:
81 APPLICATION NUMBER: US/07/857,224B
82 FILING DATE: 03/25/92
83 CLASSIFICATION: 436
84 PRIOR APPLICATION DATA: none
85 TELECOMMUNICATION INFORMATION:
86 TELEPHONE: (international) 41 1 632 2830
87 TELEFAX: (international) 41 1 262 2437
88 TELEX: none
89 INFORMATION FOR SEQ ID NO: 104:
90 SEQUENCE CHARACTERISTICS:
91 LENGTH: 141
92 TYPE: amino acid
93 TOPOLOGY: linear
94 MOLECULE TYPE:
95 DESCRIPTION: protein
96 ORIGINAL SOURCE:
97 ORGANISM: maize
98 FEATURE: Pathogenesis related protein; Table 16 Row 8
99 PUBLICATION INFORMATION:
100 AUTHORS:
101 AUTHORS: Cutt, J. R.
102 AUTHORS: Dixon, D. C.
103 AUTHORS: Carr, J. P.
104 AUTHORS: Klessig, D. F.
105 TITLE: Isolation and nucleotide sequence of cDNA clones for the
106 TITLE: Pathogenesis related proteins of Nicotiana tabacum induced by TMV
107 TITLE: Infection.
108 JOURNAL: Nucleic Acids Research
109 VOLUME: 16
110 PAGES: 9861
111 DATE: 1988
112 US-07-857-224B-104
113
114 Query Match 27.6%; Score 299; DB 2; Length 141;
115 Best Local Similarity 42.4%; Pred. No. 1.2e-23;
116 Matches 61; Conservative 16; Mismatches 61; Indels 6; Gaps 4;
117
118 QY 53 SNATADEYLAPHNOARAAGVAPLRNAGLASAAAGTVAQQRGGCAADGVAADGASPYCAN 122
119 DB 1 SENSFQDYLTLPONSARAAGVGPVTWSTKLQGFPAEKYAAQ--RAGDCPLQHSQ-GPYGEN 57
120
121 QY 123 QGM--ASYRAPPAHVVALVWAGRYTHANNITCAAGROCGTGTGVVWRNTAEVGCQAASCAT 180
122 DB 58 IFWGAQGFDMKAVDAVRSWYDEKQWNTYATNSCAKGVCGHYTQVWRNTAEVGCQAASCAT 117
123
124 QY 181 ATG-ATITLCILYNPHGNVQGSPPY 203
125 DB 118 RDNKGVEIICNIEPRGNIAQMKPY 141
126
127 RESULT 4
128 US-07-857-224B-100
129 Sequence 100, Application US/07857224B
130 Patent No. 5958784
131 GENERAL INFORMATION:
132 APPLICANT: Benner, Steven A.
133 TITLE OF INVENTION: Predicting Folded Structures of Proteins
134 NUMBER OF SEQUENCES: 114
135 CORRESPONDENCE ADDRESS:
136 ADDRESSEE: Steven A. Benner
137 STREET: Hadlaubstrasse 151
138 CITY: Zurich
139 STATE: none
140 COUNTRY: Switzerland
141 ZIP: (note: this is an international post code) CH-8092

```

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? COMPUTER READABLE FORM:
? MEDIUM TYPE: 3.5 inch diskette, 1.4 Mb storage
? COMPUTER: Apple Macintosh
? OPERATING SYSTEM: Macintosh 7.0
? SOFTWARE: Microsoft Word
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/07/857,224B
? FILING DATE: 03/25/92
? CLASSIFICATION: 436
? PRIOR APPLICATION DATA: none
? TELEPHONE: (International) 41 1 532 2830
? TELEFAX: (International) 41 1 262 2437
? TELEX: none
? INFORMATION FOR SEQ ID NO: 100:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 138
? TYPE: amino acid
? TOPOLOGY: linear
? MOLECULE TYPE:
? DESCRIPTION: protein
? ORIGINAL SOURCE:
? ORGANISM: tobacco
? FEATURE: Pathogenesis related protein; Table 16 row 4
? PUBLICATION INFORMATION:
? AUTHORS:
? AUTHORS: Cutl, J. R.
? AUTHORS: Dixon, D. C.
? AUTHORS: Carr, J. P.
? AUTHORS: Klessig, D. F.
? TITLE: Isolation and nucleotide sequence of cDNA clones for the
? TITLE: pathogenesis related proteins of Nicotiana tabacum induced by TMV
? TITLE: infection.
? JOURNAL: Nucleic Acids Research
? VOLUME: 16
? PAGES: 9861
? DATE: 1988
? US-07-857-224B-100

Query Match 27.3% Score 296; DB 2; Length 138;
Best Local Similarity 44.3%; Pred. No. 2,3e-23;
Matches 62; Conservative 15; Mismatches 51; Indels 12; Gaps 3;

QY 69 EYLAPHNOARAGVAPLEKKNAGLASAAAGTVAQDRGGCAADVCA-----SPYGANQG 124
DB 6 DYLDHNTARDYGVGEPLWDOOVAAYAKYASQ-----LADCNELVHSRQYGNLA 58
QY 125 NASYR-ARPAEVALKVAEGRYTFYFANNTCAGGCGGTGYGVVWKNVAEYGCQAQSCATG 183
DB 59 MCGSDFL-AAKAVFMWYNEKYVARDSTNCAQGGVCGRYTGVVWNSVRVGCARVCCNNG 118
QY 184 ATLILCLYNPHNGVQSPY 203
DB 119 GYIVSCNDYPPCNVICKSPY 138

RESULT 5
US-08-181-271A-45
? Sequence 45, Application US/08181271A
? Patent No. 5614395
? GENERAL INFORMATION:
? APPLICANT: Ryals, John A.
? APPLICANT: Alexander, Danny C.
? APPLICANT: Beck, James J.
? APPLICANT: Duesing, John H.
? APPLICANT: Friedrich, Leslie B.
? APPLICANT: Goodman, Robert M.
? APPLICANT: Harms, Christian
? APPLICANT: Meins, Jr., Frederick
? APPLICANT: Montoya, Alice
? APPLICANT: Moyer, Mary B.
? APPLICANT: Neuhaus, Jean-Marc
? APPLICANT: Payne, George B.

? APPLICANT: Sperison, Christoph
? APPLICANT: Stinson, Jeffrey R.
? APPLICANT: Uknes, Scott J.
? APPLICANT: Ward, Eric R.
? APPLICANT: Williams, Shetlica C.
? TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
? TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
? NUMBER OF SEQUENCES: 106
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: CIBA-GEIGY Corporation
? STREET: 7 Skyline Drive
? CITY: Hawthorne
? STATE: New York
? COUNTRY: USA
? ZIP: 10532
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: PatentIn Release #1.0, Version #1.25
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/181,271A
? FILING DATE: 13-JAN-94
? CLASSIFICATION: 435
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/093,301
? FILING DATE: 16-JUL-1993
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/937,197
? FILING DATE: 6-NOV-1992
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/678,378
? FILING DATE: 1-APR-1991
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/305,566
? FILING DATE: 6-FEB-1989
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/155,667
? FILING DATE: 8-MAR-1988
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/042,847
? FILING DATE: 6-APR-1993
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/632,441
? FILING DATE: 21-DEC-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/425,504
? FILING DATE: 20-OCT-1989
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/848,506
? FILING DATE: 6-MAR-1992
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/768,122
? FILING DATE: 27-SEP-1991
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/580,431
? FILING DATE: 7-SEP-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/368,672
? FILING DATE: 20-JUN-1989
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/329,018
? FILING DATE: 24-MAR-1989
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/045,957
? FILING DATE: 12-APR-1993
? ATTORNEY/AGENT INFORMATION:
? NAME: Elmer, James Scott
? REGISTRATION NUMBER: 36,129
? REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (919)541-8614
? TELEFAX: (919)541-8689
```



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: INFORMATION FOR SEQ ID NO: 45:
: SEQUENCE CHARACTERISTICS:
:   LENGTH: 168 amino acids
:   TYPE: amino acid
:   TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-181-271A-45

Query Match      26.4%  Score 286;  DB 1;  Length 168;
Best Local Similarity 36.7%  Pred. No. 3,4e-22;
Matches 69;  Conservative 22;  Mismatches 59;  Indels 38;  Gaps 7;

QY  22  LLATLLALCAAPATHGAVVMPGGAGAVTKAGCGTGGSSNATADBYLAPHNQARAAY 81
    ||:|||||  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|
Db   13  LLVSTLLFLV1---SHSCR-----AQN50Q-----DYLDHNTARADY 48
    ||:|||||  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|

QY  82  GVAPLRWNNGLASAAAGTVAAQRROGGCAFADVGA-----SPYGAN--OGWASYRARPAY 135
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Db   49  GVEPLTWDDQVAAYAAQNYASQ-----LAADCNLVHSHGQYGENLAEGSGDFMI-AAKA 100
    ||:|||||  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|

QY  136  VALVVAEGRYTHANTCAAGRCQGTYYQVWRNTAEVGCQAQSCATGATLTICLYNPHG 195
    ||:|||||  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|
Db   101  VEMVYDEKQYDHDSDNTCAQGVCGHYTQVWRNSRVGCAQVQCNGGYYVSCNDYPPG 160
    ||:|||||  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|

QY  196  NVQGSFPY 203
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Db   161  NYRGESPY 168
    ||:|||||

RESULT 6
US-08-449-315-45
: Sequence 45, Application US/08449315
: Patent No. 5650505
: GENERAL INFORMATION:
:   APPLICANT: Ryals, John A.
:   APPLICANT: Alexander, Danny C.
:   APPLICANT: Beck, James J.
:   APPLICANT: Duesing, John H.
:   APPLICANT: Friedrich, Leslie B.
:   APPLICANT: Goodman, Robert M.
:   APPLICANT: Harms, Christian
:   APPLICANT: Meins, Jr., Frederick
:   APPLICANT: Montoya, Alice
:   APPLICANT: Moyer, Mary B.
:   APPLICANT: Neuhaus, Jean-Marie
:   APPLICANT: Payne, George B.
:   APPLICANT: Sperison, Christoph
:   APPLICANT: Stinson, Jeffrey R.
:   APPLICANT: Uknes, Scott J.
:   APPLICANT: Ward, Eric R.
:   APPLICANT: Williams, Shericca C.
: TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
: TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
: NUMBER OF SEQUENCES: 106
: CORRESPONDENCE ADDRESS:
:   ADDRESS: CIBA-GEIGY Corporation
:   STREET: 7 Skyline Drive
:   CITY: Hawthorne
:   STATE: New York
:   COUNTRY: USA
:   ZIP: 10532
: COMPUTER READABLE FORM:
:   MEDIUM TYPE: Floppy disk
:   COMPUTER: IBM PC compatible
:   OPERATING SYSTEM: PC-DOS/MS-DOS
:   SOFTWARE: Patent Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
:   APPLICATION NUMBER: US/08/449,315
:   FILING DATE: 24-MAY-1995
:   CLASSIFICATION: 80C
:   PRIOR APPLICATION DATA:
:   APPLICATION NUMBER: 08/181,271
:   FILING DATE: 13-JAN-94
:
: APPLICATION NUMBER: US 08/093,301
: FILING DATE: 16-JUL-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/937,197
: FILING DATE: 6-NOV-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/678,378
: FILING DATE: 1-APR-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/405,566
: FILING DATE: 6-FEB-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/165,667
: FILING DATE: 8-MAR-1988
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/042,847
: FILING DATE: 6-APR-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/632,441
: FILING DATE: 21-DEC-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/425,504
: FILING DATE: 20-OCT-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/849,506
: FILING DATE: 6-MAR-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/169,122
: FILING DATE: 27-SEP-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/580,431
: FILING DATE: 7-SEP-1990
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/368,672
: FILING DATE: 20-JUN-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 07/329,018
: FILING DATE: 24-MAR-1989
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/045,957
: FILING DATE: 12-APR-1993
: ATTORNEY/AGENT INFORMATION:
:   NAME: Elmer, James Scott
:   REGISTRATION NUMBER: 36,129
: REFERENCE/DOCKET NUMBER: S-19825/PJ/CSC 1727
: TELECOMMUNICATION INFORMATION:
:   TELEPHONE: (919)541-8614
:   TELEFAX: (919)541-8689
: INFORMATION FOR SEQ ID NO: 45:
: SEQUENCE CHARACTERISTICS:
:   LENGTH: 168 amino acids
:   TYPE: amino acid
:   TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-449-315-45

Query Match      26.4%  Score 286;  DB 1;  Length 168;
Best Local Similarity 36.7%  Pred. No. 3,4e-22;
Matches 69;  Conservative 22;  Mismatches 59;  Indels 38;  Gaps 7;

QY  22  LLATLLALCAAPATHGAVVMPGGAGAVTKAGCGTGGSSNATADBYLAPHNQARAAY 81
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Db   13  LLVSTLLFLV1---SHSCR-----AQN50Q-----DYLDHNTARADY 48
    ||:|||||  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|

QY  82  GVAPLRWNNGLASAAAGTVAAQRROGGCAFADVGA-----SPYGAN--OGWASYRARPAY 135
    ||:|||||  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|
Db   49  GVEPLTWDDQVAAYAAQNYASQ-----LAADCNLVHSHGQYGENLAEGSGDFMT-AAKA 100
    ||:|||||  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|

QY  136  VALVVAEGRYTHANTCAAGRCQGTYYQVWRNTAEVGCQAQSCATGATLTICLYNPHG 195
    ||:|||||  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|
Db   101  VEMVYDEKQYDHDSDNTCAQGVCGHYTQVWRNSRVGCAQVQCNGGYYVSCNDYPPG 160
    ||:|||||  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|  :|

QY  196  NVQGSFPY 203
    ||:|||||
Db   161  NYRGESPY 168
    ||:|||||
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Db 161 NYRGESPY 168

1 :|||

RESULT 7

US-08-444-903-45

Sequence 45, Application US/08444803

Patent No. 5654414

GENERAL INFORMATION:

APPLICANT: Ryals, John A.

APPLICANT: Alexander, Danny C.

APPLICANT: Beck, James J.

APPLICANT: Dressing, John H.

APPLICANT: Friedrich, Leslie B.

APPLICANT: Goodman, Robert M.

APPLICANT: Harms, Christian

APPLICANT: Meins, Jr., Frederick

APPLICANT: Montoya, Alice

APPLICANT: Moyer, Mary B.

APPLICANT: Neuhaus, Jean-Marc

APPLICANT: Payne, George B.

APPLICANT: Sperison, Christoph

APPLICANT: Stinson, Jeffrey R.

APPLICANT: Uknes, Scott J.

APPLICANT: Williams, Sherica C.

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PA-HOGENIC

NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: New York

COUNTRY: USA

ZIP: 10512

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/444,803

FILING DATE: 19-MAY-1995

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 05/181,271

FILING DATE: 18-JAN-94

APPLICATION NUMBER: US 08/093,301

FILING DATE: 16-JUL-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/937,137

FILING DATE: 6-NOV-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/678,378

FILING DATE: 1-APR-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/105,566

FILING DATE: 6-FEB-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/165,567

FILING DATE: 8-MAR-1988

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/042,847

FILING DATE: 6-APR-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/532,441

FILING DATE: 21-DEC-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/425,504

FILING DATE: 20-OCT-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/848,506

FILING DATE: 6-MAR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/768,122

FILING DATE: 27-SEP-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/580,431

FILING DATE: 7-SEP-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/368,672

FILING DATE: 20-JUN-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/329,618

FILING DATE: 24-MAR-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/045,957

FILING DATE: 12-APR-1993

ATTORNEY/AGENT INFORMATION:

NAME: Elmet, James Scott

REGISTRATION NUMBER: 36,129

REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727

TELECOMMUNICATION INFORMATION:

TELEPHONE: (919)541-8614

TELEFAX: (919)541-8489

INFORMATION FOR SEQ ID NO: 45:

SEQUENCE CHARACTERISTICS:

LENGTH: 168 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-444-803-45

Query Match 26.4%; Score 286; DB 1; Length 168;

Best Local Similarity 36.7%; Pred. No. 3,40-22;

Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;

QY 22 LLATLLALCAAPATHGAVLMPGGAGAVTKAOGGSGSCSNATADEYLAPHNOARAV 81

DB 13 LLVSTLLLEVL---SHSCR-----ACNSQ-----DYDAENTARADV 48

QY 62 GVAPLRNAGLASAAAGTVAQRROGSCAFADVGA----SPYGAN--QGWASYRPAEV 135

DB 45 GVEPLTWDSQVAAYAVASQ-----LAADCNLVESHQYGHNLAFSGDEMT-AARA 100

QY 136 VALVVAEGRYVYTHANNICAGKQNGTYTVVVRNIAEVGCAQASNCATLITCLYNPHG 195

DB 101 VEMVDEKGYTHDSNTCAQKGVCGHTTQVVRNRSVRVGLARVQCINNGTIVVSCNTDPPG 160

QY 196 NVQGOSPY 203

DB 161 NYRGESPY 168

RESULT 8

US-08-449-043-45

Sequence 45, Application US/08449043

Patent No. 5689044

GENERAL INFORMATION:

APPLICANT: Ryals, John A.

APPLICANT: Alexander, Danny C.

APPLICANT: Beck, James J.

APPLICANT: Dussing, John H.

APPLICANT: Friedrich, Leslie B.

APPLICANT: Goodman, Robert M.

APPLICANT: Harms, Christian

APPLICANT: Meins, Jr., Frederick

APPLICANT: Montoya, Alice

APPLICANT: Moyer, Mary B.

APPLICANT: Neuhaus, Jean-Marc

APPLICANT: Payne, George B.

APPLICANT: Sperison, Christoph

APPLICANT: Stinson, Jeffrey R.

APPLICANT: Uknes, Scott J.

APPLICANT: Ward, Eric R.


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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,847
; FILING DATE: 6-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/532,441
; FILING DATE: 21-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/425,504
; FILING DATE: 20-OCT-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,506
; FILING DATE: 6-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/768,122
; FILING DATE: 27-SEP-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/580,431
; FILING DATE: 7-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/368,672
; FILING DATE: 20-JUN-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/329,018
; FILING DATE: 24-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/045,957
; FILING DATE: 12-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Meigs, J. Timothy
; REGISTRATION NUMBER: 38,241
; REFERENCE/DOCKET NUMBER: S-19825/PL/CSC 1727/CIV10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919)541-8587
; TELEFAX: (919)541-8689
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 168 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-456-265A-45

Query Match 26.4%; Score 286; DB 1; Length 168;
Best Local Similarity 36.7%; Pred No. 3.4e-22;
Matches 69; Conservative 22; Mismatches 55; Indels 38; Gaps 7;

QY 22 LLATLLALCAAPATHGAVRVLMPGGAGAVTKAQGGTGGSGSNATADPY:APHNQAAAV 82
Db 13 LLVSTLLPLVLT---SHSCR-----AQNSQO-----DYLTAHNTARADV 48
QY 82 GVAPLKNAGLASAAAGTVAQGRQGGCAFADVGA---SPYGAN--CGWASYRARPAY 135
Db 49 GVEPLTMDQVAAVYAGNYASQ-----LAACNLVSHSGYGENLAGSGHPT-AAKA 100
QY 136 VALWVARGPYTHANTTCAGRGCGTYTGVVWNTAEVGCACACATGATLTC:YNPHG 195
Db 101 VEMWVDEKQYDHDSCITCAQGCVCGRHYTGVVWNSRVVSGCARVQCNGSYVSCNYDPFG 160
QY 196 NVQGSQSPY 203
Db 161 NYRGESPY 168

RESULT 10
US-08-455-416-45
; Sequence 45, Application US/08455416
; Patent No. 577200
; GENERAL INFORMATION:
; APPLICANT: Ryals, John A.
; APPLICANT: Alexander, Danny C.
; APPLICANT: Beck, James J.
; APPLICANT: Duesing, John H.
; APPLICANT: Friedrich, Leslie B.
; APPLICANT: Goodman, Robert M.
; APPLICANT: Harms, Christian
; APPLICANT: Meins, Jr., Frederick
; APPLICANT: Montoya, Alice
; APPLICANT: Meyer, Mary B.
; APPLICANT: Neuhaus, Jean-Marc
; APPLICANT: Rayne, George B.
; APPLICANT: Sperison, Christoph
; APPLICANT: Stinson, Jeffrey R.
; APPLICANT: Uknes, Scott J.
; APPLICANT: Ward, Eric R.
; APPLICANT: Williams, Shericca C.
; TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PAIHOGENIC
; TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
; NUMBER OF SEQUENCES: 106
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CIBA-GEIGY Corporation
; STREET: 7 Skyline Drive
; CITY: Hawthorne
; STATE: New York
; COUNTRY: USA
; ZIP: 10532
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/455,415
; FILING DATE: 31-MAY-1995
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/181,271
; FILING DATE: 13-JAN-94
; APPLICATION NUMBER: US 08/093,301
; FILING DATE: 16-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/937,197
; FILING DATE: 6-NOV-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/578,378
; FILING DATE: 1-APR-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/305,566
; FILING DATE: 6-FEB-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/165,667
; FILING DATE: 8-MAR-1988
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,847
; FILING DATE: 6-APR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/652,441
; FILING DATE: 21-DEC-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/425,504
; FILING DATE: 20-OCT-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/848,506
; FILING DATE: 6-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/768,122
; FILING DATE: 27-SEP-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/580,431
; FILING DATE: 7-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/368,672
; FILING DATE: 20-JUN-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/329,018
; FILING DATE: 24-MAR-1989
; PRIOR APPLICATION DATA:

```

APPLICATION NUMBER: US 06/245,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 168 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-455-416-45

Query Match 26.4% Score 256; DR 1; Length 168;
Best Local Similarity 35.7%; Pred. No. 3.4e-22;
Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;
QY 22 LLATLALCAAPATHGAVIMPGGAGAVTKAQQGTGSGSNATADAYLAPHKQAAAV 91
DB 13 LVSTLLFLVI---SHSCR-----AQNSEQ-----DYLDHNRADV 48
QY 82 GYAPLRNAGLASAAGTVAQORROGCAPADVGA---SPYGN---QGASVAPAEV 135
DB 49 GVEPLTDDQVAAVYQNTASQ-----IAADCNLVSHSGYGENAEGSGDEMT-AAKA 100
QY 136 VALVAEGRYTHANTCAAGRCQCTYQVYVNRNTAEVGAQAASCATCA-TITCLYNPHG 195
DB 101 VEMVDEKQYVHDSTNCAGSQVQGHYTVVYWRKSVRGCAKVCNNGGVVVCNDPPG 160
QY 196 NVQGSQSPY 203
DB 161 NYRGESPY 168

RESULT 11
US-08-455-244-45
Sequence 45, Application US/08455244
Patent No. 5789214
GENERAL INFORMATION:
APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marie
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christopher
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Ukens, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericea C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PA-HOGENIC
TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESS: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/455,244
FILING DATE: 31-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/281,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,302
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/405,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,019
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8689
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 168 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-455-244-45

Query Match 26.4% Score 286; DR 1; Length 168;
Best Local Similarity 36.7%; Pred. No. 3.4e-22;
Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;
QY 22 LLATLALCAAPATHGAVIMPGGAGAVTKAQQGTGSGSNATADAYLAPHKQAAAV 91
DB 13 LVSTLLFLVI---SHSCR-----AQNSEQ-----DYLDHNRADV 48

APPLICANT: Melms, Jr., Frederick
 APPLICANT: Montoya, Alice
 APPLICANT: Moyer, Mary B.
 APPLICANT: Neuhaus, Jean-Marc
 APPLICANT: Payne, George R.
 APPLICANT: Sperison, Christoph
 APPLICANT: Stinson, Jeffrey R.
 APPLICANT: Utnes, Scott J.
 APPLICANT: Ward, Eric R.
 APPLICANT: Williams, Shericca C.
 TITLE OF INVENTION: CHEMICALLY REGULATABLE ANT-ANTI-PATHOGENIC
 NUMBER OF SEQUENCES: 106
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CIBA-GEIGY Corporation
 CITY: Hawthorne
 STATE: New York
 COUNTRY: USA
 ZIP: 10532
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA: US/08/457,364
 FILING DATE: 3-MAY-1995
 CLASSIFICATION: 860
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/01,271
 FILING DATE: 13-JAN-94
 APPLICATION NUMBER: US 08/093,301
 FILING DATE: 16-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/937,197
 FILING DATE: 6-NOV-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/678,378
 FILING DATE: 1-APR-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/305,566
 FILING DATE: 6-FEB-1999
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/165,667
 FILING DATE: 8-MAR-1988
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/042,847
 FILING DATE: 6-APR-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/652,441
 FILING DATE: 21-DEC-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/425,504
 FILING DATE: 20-OCT-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/848,506
 FILING DATE: 6-MAR-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/768,122
 FILING DATE: 27-SEP-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/580,431
 FILING DATE: 7-SEP-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/368,672
 FILING DATE: 20-JUN-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/329,018
 FILING DATE: 24-MAR-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/045,957
 FILING DATE: 12-APR-1993

ATTORNEY/AGENT INFORMATION:
 NAME: Zimer, James Scott
 REGISTRATION NUMBER: 36,129
 REFERENCE/DOCKET NUMBER: S-19825/PI/CSC 1727
 TELEPHONE: (919)541-8614
 TELEFAX: (919)541-8689
 INFORMATION FOR SEQ ID NO: 45:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 168 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLWULE TYPE: protein
 US-08-457-364-45
 Query Match 26.4% Score 286; DB 2: Length 168;
 Best Local Similarity 36.7%; Pred. No. 3.4e-22;
 Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;
 QY 22 LLLATLLALCAAPATHCARVIMPGGAGAVTKAGCGTSSGNNATADVEYLAPHNQARAV 81
 DE 13 LLVSTLLLFVI---SHSCR-----ACNSQQ-----DYLAHNTARADV 48
 QY 82 GVAPLRNAGIASAACTVACORRROGSCAPADVGA-----SPYCAN--CGWASYRAPPAY 135
 DE 45 GVEPLTWDDQVAVAYQYASQ-----LAADNLVSHSGOYGENLAESSGFMT-AAKA 100
 QY 136 VALVNAEGRYVYTHANTCAAGROGNYTVQVWRNTAEVGAQACATGAILTLCYNPHG 195
 DE 101 VEMVDEKQYVDHDSNTCAQSGVCGHYTVQWVNSVRVGARVOCNNGGYVVSNCYDPHG 160
 QY 196 NVGOSPY 203
 DE 161 NYRGESPY 168
 RESULT 14
 US-08-456-262-45
 Sequence 45, Application US/08456262
 Patent No 5851766
 GENERAL INFORMATION:
 APPLICANT: Ryals, John A.
 APPLICANT: Alexander, Danny C.
 APPLICANT: Beck, James J.
 APPLICANT: Duesing, John H.
 APPLICANT: Friedrich, Leslie B.
 APPLICANT: Goodman, Robert M.
 APPLICANT: Harms, Christian
 APPLICANT: Melms, Jr., Frederick
 APPLICANT: Montoya, Alice
 APPLICANT: Moyer, Mary B.
 APPLICANT: Neuhaus, Jean-Marc
 APPLICANT: Payne, George R.
 APPLICANT: Sperison, Christoph
 APPLICANT: Stinson, Jeffrey R.
 APPLICANT: Utnes, Scott J.
 APPLICANT: Ward, Eric R.
 APPLICANT: Williams, Shericca C.
 TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
 NUMBER OF SEQUENCES: 106
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CIBA-GEIGY Corporation
 STREET: 7 Skyline Drive
 CITY: Hawthorne
 STATE: New York
 COUNTRY: USA
 ZIP: 10532
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25

1 CURRENT APPLICATION DATA:
2 APPLICATION NUMBER: US/08/456,262
3 FILING DATE: 31-MAY-1995
4 CLASSIFICATION: 435
5 PRIOR APPLICATION DATA:
6 APPLICATION NUMBER: 08/181,271
7 FILING DATE: 13-JAN-94
8 APPLICATION NUMBER: US 08/393,301
9 FILING DATE: 16-JUL-1993
10 PRIOR APPLICATION DATA:
11 FILING DATE: 6-NOV-1992
12 APPLICATION NUMBER: US 07/337,157
13 PRIOR APPLICATION DATA:
14 FILING DATE: 07/678,378
15 APPLICATION NUMBER: 1-APR-1991
16 PRIOR APPLICATION DATA:
17 APPLICATION NUMBER: US 07/305,566
18 FILING DATE: 6-FEB-1989
19 PRIOR APPLICATION DATA:
20 APPLICATION NUMBER: US 07/165,667
21 FILING DATE: 8-MAR-1988
22 PRIOR APPLICATION DATA:
23 APPLICATION NUMBER: US 08/042,647
24 FILING DATE: 6-APR-1993
25 PRIOR APPLICATION DATA:
26 APPLICATION NUMBER: US 07/632,441
27 FILING DATE: 21-DEC-1990
28 PRIOR APPLICATION DATA:
29 APPLICATION NUMBER: US 07/425,504
30 FILING DATE: 20-OCT-1989
31 PRIOR APPLICATION DATA:
32 APPLICATION NUMBER: US 07/848,506
33 FILING DATE: 6-MAR-1992
34 PRIOR APPLICATION DATA:
35 APPLICATION NUMBER: US 07/768,122
36 FILING DATE: 27-SEP-1991
37 PRIOR APPLICATION DATA:
38 APPLICATION NUMBER: US 07/580,431
39 FILING DATE: 7-SEP-1990
40 PRIOR APPLICATION DATA:
41 APPLICATION NUMBER: US 07/368,672
42 FILING DATE: 20-JUN-1989
43 PRIOR APPLICATION DATA:
44 APPLICATION NUMBER: US 07/329,018
45 FILING DATE: 24-MAR-1989
46 PRIOR APPLICATION DATA:
47 APPLICATION NUMBER: US 08/045,957
48 FILING DATE: 12-APR-1993
49 ATTORNEY/AGENT INFORMATION:
50 NAME: Elmer, James Scott
51 REGISTRATION NUMBER: 36,129
52 REFERENCE/DOCKET NUMBER: S-19925/PL/UGC 1727
53 TELECOMMUNICATION INFORMATION:
54 TELEPHONE: (919)541-8614
55 TELEFAX: (919)541-8689
56 INFORMATION FOR SEQ ID NO: 45:
57 SEQUENCE CHARACTERISTICS:
58 LENGTH: 168 amino acids
59 TYPE: amino acid
60 TOPOLOGY: linear
61 MOLECULE TYPE: protein
62 US-08-456-262-45

Query Match 26.4% Score 286; DB 2; length 168;
Best Local Similarity 36.7%; Pred No. 3,40-22;
Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;
Qy 22 LLATLLA:CAAPATPHARVLMFGAGAVTKAQOQGTGSGSNATADVEYLAPHNCAAAV 81
Db 13 LLVSTLLFLVI---SHSCR-----AQNSQO-----DYLDIAHTASADV 48
Qy 82 GVAPLRWAGLASAAAGTVAQORROGCGAFADVGA-----SPYGAN--QGRASVYKARAEV 135

49 GVEPLTWDDQVAAYAGNYASQ-----LAADNLVHSHCVGGENLAESGDFMT-AAKA 100
136 VALWAAGRYTHANFCAAGROCGTYTQVWNTAEVSCACASCAIGATILICLYNPHG 195
101 VEMAVDEKQYVDEHUSNCAQSGVGHVTVVWNSVAVGACARVCGNNGGVVYVSCNDDPG 160
196 NVGGQSPY 203
161 NYRGESPY 168
RESULT 15
US-08-456-240-45
Sequence 45, Application RS/08456240
Patent No. 5856154
GENERAL INFORMATION:
APPLICANT: Ryals, John A.
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TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PAATHOGENIC
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentL: Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/456,240
FILING DATE: 31-MAY-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/181,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/393,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/337,157
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,647
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
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INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 168 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-456-240-45

Query Match 26.4%; Score 286; Db 2; Length 168;
Best Local Similarity 36.7%; Pred. No. 3.4e-22;
Matches 69; Conservative 22; Mismatches 59; Indels 38; Gaps 7;
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DB 13 LIVSTLLFLV1---SHSR-----ACNSQ-----DYLDHNTARAIW 48
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DB 49 GVEPLTKDDQVAAYCAQVNASQ-----LAADCNLVSHQYGENLAESGDPNT-AAKA 100
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DB 101 VEMWYDEKCYDHDSDNTCAQQVQVGHYTVVWRNSVRVGCARVQCKNGGYVVSCTDI 160
QY 196 KYGOSPY 203
DB 16: NYRGESPY 168

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Job time : 28 secs